

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 25, 2004, 01:49:04 ; Search time 23 Seconds
(without alignments)
298.533 Million cell updates/sec

Title: US-09-638-693-36
Perfect score: 133
Sequence: 1 QNEICLTHPTIKYIMACMSA.....VIEPIVTTNWQKLEAFWHKH 133

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/prodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/prodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/prodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/prodata/2/iaa/PCUTS_COMB.pep.*
6: /cgn2_6/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	48	36.1	128	1	US-08-244-116B-17
2	41	30.8	829	4	US-09-881-239-5
3	41	30.8	1099	4	US-09-881-654-4
4	20	15.0	20	4	US-09-790-497A-104
5	20	15.0	22	2	US-08-146-028-107
6	20	15.0	22	3	US-08-723-425A-107
7	20	15.0	22	3	US-09-112-206-107
8	20	15.0	22	4	US-09-576-824A-104
9	19	14.3	19	1	US-08-244-116B-2
10	19	14.3	247	1	US-08-324-977-44
11	19	14.3	247	2	US-08-384-616-44
12	19	14.3	247	2	US-08-904-686A-44
13	19	14.3	247	3	US-09-315-850-44
14	19	14.3	631	1	US-08-700-356-1
15	19	14.3	631	2	US-08-936-865-1
16	19	14.3	632	3	US-09-198-723A-23
17	19	14.3	632	4	US-09-684-861-23
18	19	14.3	646	3	US-09-198-723A-60
19	19	14.3	646	3	US-09-198-723A-63
20	19	14.3	646	3	US-09-198-723A-66
21	19	14.3	646	3	US-09-198-723A-69
22	19	14.3	646	3	US-09-198-723A-72
23	19	14.3	646	4	US-09-684-881-60
24	19	14.3	646	4	US-09-684-881-63
25	19	14.3	646	4	US-09-684-881-66
26	19	14.3	646	4	US-09-684-881-69
27	19	14.3	646	4	US-09-684-881-72

28	19	14.3	665	4	US-09-543-376B-1	Sequence 1, Appli
29	19	14.3	665	4	US-09-543-376B-2	Sequence 2, Appli
30	19	14.3	665	4	US-09-543-376B-3	Sequence 3, Appli
31	19	14.3	666	3	US-09-198-723A-11	Sequence 11, Appl
32	19	14.3	666	3	US-09-198-723A-12	Sequence 12, Appl
33	19	14.3	666	3	US-09-198-723A-13	Sequence 13, Appl
34	19	14.3	666	3	US-09-198-723A-14	Sequence 14, Appl
35	19	14.3	666	3	US-09-198-723A-15	Sequence 15, Appl
36	19	14.3	666	3	US-09-198-723A-16	Sequence 16, Appl
37	19	14.3	666	3	US-09-198-723A-17	Sequence 17, Appl
38	19	14.3	666	3	US-09-198-723A-18	Sequence 18, Appl
39	19	14.3	666	4	US-09-684-881-11	Sequence 11, Appl
40	19	14.3	666	4	US-09-684-881-12	Sequence 12, Appl
41	19	14.3	666	4	US-09-684-881-13	Sequence 13, Appl
42	19	14.3	666	4	US-09-684-881-14	Sequence 14, Appl
43	19	14.3	666	4	US-09-684-881-15	Sequence 15, Appl
44	19	14.3	666	4	US-09-684-881-16	Sequence 16, Appl
45	19	14.3	666	4	US-09-684-881-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1
US-08-244-116B-17
; Sequence 17, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Man
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 5763159th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: PCT/GB92/02143
; APPLICATION NUMBER: 20-NOV-1992
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: Yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-08-244-116B-17

Query Match 36.1%; Score 48; DB 1; Length 128;

Best Local Similarity 100.0%; Pred. No. 3.2e-39;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 15 MACMSADLEVTTSTWVLLGGVLAALAAAYCLSVGCWVIVGHIELGKPA 62
|||
Dp 9 MACMSADLEVTTSTWVLLGGVLAALAAAYCLSVGCWVIVGHIELGKPA 56
|||

RESULT 2

```

US-09-881-239-5
; Sequence 5, Application US/09881239
; Patent No. 6630298
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: ARCANGEL, Phillip
; APPLICANT: TANDESKE, Laura
; APPLICANT: GEORGE-NASCIENTO, Carlos
; APPLICANT: COIT, Doris
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: HCV ANTIGEN/ANTIBODY COMBINATION ASSAY
; FILE REFERENCE: 2302-16073 / PP16073.003
; CURRENT APPLICATION NUMBER: US/09/881.239
; CURRENT FILING DATE: 2001-06-14
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 829
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 12
US-09-881-239-5

```

```
Query Match      30.8%; Score 41; DB 4; Length 829;
Best Local Similarity 100.0%; Pred. No. 1.2e-31;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

58 GGKPAIVPDKEVLQQYDEMEECSSQAAPYIEQAQVIAHQFK 98
 444 GGKPAIVPDKEVLQQYDEMEECSSQAAPYIEQAQVIAHQFK 484

RESULT 3

```

US-09-881-654-4
: Sequence 4, Application US/09881654
: Patent No. 6632601
: GENERAL INFORMATION:
: APPLICANT: CHIEN, David Y.
: APPLICANT: ARCANGEL, Phillip
: APPLICANT: TANDESKE, Laura
: APPLICANT: GEORGE-NASCIENTO, Carlos
: APPLICANT: COLT, Doris
: APPLICANT: MEDINA-SELBY, Angelica
: TITLE OF INVENTION: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES
: FILE REFERENCE: 2302-17039 / P17039.002
: CURRENT APPLICATION NUMBER: US/09/881,654
: CURRENT FILING DATE: 2001-06-14
: PRIOR APPLICATION NUMBER: 60/212,082
: PRIOR FILING DATE: 2000-06-15
: PRIOR APPLICATION NUMBER: 60/280,811
: PRIOR FILING DATE: 2001-04-02
: PRIOR APPLICATION NUMBER: 60/280,867
: PRIOR FILING DATE: 2001-04-02
: NUMBER OF SEQ ID NOS: 7
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 4
: LENGTH: 1099
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: MEPA 7.1
US-09-881-654-4

```

Query Match 30.8%; Score 41; DB 4; Length 1099;
Best Local Similarity 100.0%; Pred. No. 1.5e-31;
Matches 41; Conservative 0; Mismatches 0; Indels

QY 58 GGKPAIVDPKEVLYQQYDEMEECSSQAAPYIEQAQVIAHQFK 98
748 GGKPAIVDPKEVLYQQYDEMEECSSQAAPYIEQAQVIAHQFK 788
Db

RESULT 4

US-09-790-497A-104
; Sequence 104, Application US/09790497A
; Patent No. 6649735
; GENERAL INFORMATION:
; APPLICANT: De Leys, Robert
; TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING
; TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR USE IN
; TITLE OF INVENTION: A PROCESS FOR DETERMINATION OF ANTIBODIES OF
; TITLE OF INVENTION: BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT
; TITLE OF INVENTION: EPITOPES, A PROCESS FOR PREPARING THEM AND COMPOSITIONS
; TITLE OF INVENTION: CONTAINING THEM
; FILE REFERENCE: 2752-16
; CURRENT APPLICATION NUMBER: US/09/790,497A
; CURRENT FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 09/576,824
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 08/723,425
; PRIOR FILING DATE: 1996-09-30
; PRIOR APPLICATION NUMBER: 09/146,028
; PRIOR FILING DATE: 1993-11-22
; PRIOR APPLICATION NUMBER: PCT/EP93/00517
; PRIOR FILING DATE: 1993-03-08
; PRIOR APPLICATION NUMBER: EP 92400598.6
; PRIOR FILING DATE: 1992-03-06
; NUMBER OF SEQ ID NOS: 600
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 104
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-09-790-497A-104

Query Match	15.0%;	Score 20;	DB 4;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 9.9e-13;		
Matches 20: Conservative	0;	Mismatches	0;	Indels
			0;	Gaps
				0;

Qy 57 LGGKPAIVPDKEVLYQQYDE 76
pb 1 LGGKPAIVPDKEVLYQQYDE 20

RESULT 5

US-08-146-028-107
; Sequence 107, Application US/08146028
; Patent No. 5891640
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES
; TITLE OF INVENTION: CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR
; TITLE OF INVENTION: IN A PROCESS FOR DETERMINATION OF ANTIBODIES OR BIOTINYLATED
; TITLE OF INVENTION: PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES,
; TITLE OF INVENTION: PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM
; NUMBER OF SEQUENCES: 453
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/146,028
; INFORMATION FOR SEQ ID NO: 107:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 amino acids

```

; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-146-028-107
Query Match          15.0%; Score 20; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.1e-12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGKPAIVDPKEVLYQQYDE 76
Db 2 LGGKPAIVDPKEVLYQQYDE 21

RESULT 6
US-08-723-425A-107
; Sequence 107, Application US/08723425A
; Patent No. 6165730
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT
; TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF
; TITLE OF INVENTION: PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT
; TITLE OF INVENTION: EPITOPES AND THEIR USE IN A PROCESS FOR DETERMINATION OF
; TITLE OF INVENTION: ANTIBODIES OR BIOTINYLATED PEPTIDES CORRESPONDING ...
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE, P.C.
; STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/723,425A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-13
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 107:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-723-425A-107
Query Match          15.0%; Score 20; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.1e-12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGKPAIVDPKEVLYQQYDE 76
Db 2 LGGKPAIVDPKEVLYQQYDE 21

RESULT 7
US-09-112-206-107
; Sequence 107, Application US/09112206
; Patent No. 6210903
; GENERAL INFORMATION:
; APPLICANT:
```

```

; TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES
; TITLE OF INVENTION: CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR
; TITLE OF INVENTION: IN A PROCESS FOR DETERMINATION OF ANTIBODIES OR BIOTINYLATED
; TITLE OF INVENTION: PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES,
; TITLE OF INVENTION: PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM
; NUMBER OF SEQUENCES: 453
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/112,206
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/146,028
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 107:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-112-206-107
Query Match          15.0%; Score 20; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.1e-12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGKPAIVDPKEVLYQQYDE 76
Db 2 LGGKPAIVDPKEVLYQQYDE 21

RESULT 8
US-09-576-824A-104
; Sequence 104, Application US/09576824A
; Patent No. 6667387
; GENERAL INFORMATION:
; APPLICANT: De Leys, Robert
; TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING
; TITLE OF INVENTION: TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR USE IN
; TITLE OF INVENTION: A PROCESS FOR DETERMINATION OF ANTIBODIES OF
; TITLE OF INVENTION: BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT
; TITLE OF INVENTION: EPITOPES, A PROCESS FOR PREPARING THEM AND COMPOSITIONS
; TITLE OF INVENTION: CONTAINING THEM
; FILE REFERENCE: 2752-11
; CURRENT APPLICATION NUMBER: US/09/576,824A
; CURRENT FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 08/723,425
; PRIOR FILING DATE: 1996-09-30
; PRIOR APPLICATION NUMBER: 09/146,028
; PRIOR FILING DATE: 1993-11-22
; PRIOR APPLICATION NUMBER: PCT/EP93/00517
; PRIOR FILING DATE: 1993-03-08
; PRIOR APPLICATION NUMBER: EP 92400598.6
; PRIOR FILING DATE: 1992-03-06
; NUMBER OF SEQ ID NOS: 600
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 104
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)
; OTHER INFORMATION: modified site
; NAME/KEY: VARIANT
; LOCATION: (22)
; OTHER INFORMATION: modified site
US-09-576-824A-104
```

Query Match 15.0%; Score 20; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.1e-12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGKPAIVDPKEVLYQQYDE 76
|||||
Db 2 LGGKPAIVDPKEVLYQQYDE 21

RESULT 9

US-08-244-116B-2
; Sequence 2, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 5763159th Carolina
; COUNTRY: United States
; ZIP: 28234

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-08-244-116B-2

Query Match 14.3%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 8.8e-12;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 79 ECSQAAPYIEQAQVIAHQF 97
|||||
Db 1 ECSQAAPYIEQAQVIAHQF 19

RESULT 10

US-08-324-977-44
; Sequence 44, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto

; APPLICANT: Fuke, Isao
; APPLICANT: Mori, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.

; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 247 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-324-977-44

Query Match 14.3%; Score 19; DB 1; Length 247;
Best Local Similarity 100.0%; Pred. No. 9.5e-11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPIITKYIMACMSADLEV 24
|||||
Db 22 LTHPIITKYIMACMSADLEV 40

RESULT 11

US-08-384-616-44
; Sequence 44, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: Fuke, Isao

APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, McLeLand &
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 08/384,616
FILING DATE: 09-NOV-1990
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 247 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-384-616-44

Query Match 14.3%; Score 19; DB 2; Length 247;
Best Local Similarity 100.0%; Pred. No. 9.5e-11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEV 24
DB 22 LTHPITKYIMACMSADLEV 40

RESULT 12

US-08-904-686A-44
Sequence 44, Application US/08904686A
Patent No. 5998130
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC

TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, McLeLand &
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 08/904,686A
FILING DATE: 01-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
NAME: McLeLand, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 247 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-904-686A-44

Query Match 14.3%; Score 19; DB 2; Length 247;
Best Local Similarity 100.0%; Pred. No. 9.5e-11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEV 24
DB 22 LTHPITKYIMACMSADLEV 40

RESULT 13

US-09-315-850-44
Sequence 44, Application US/09315850
Patent No. 6217872
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao

;
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS: 3
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/315,850
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686
; FILING DATE: 01-AUG-1997
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: McLeland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 247 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-315-850-44

Query Match 14.3%; Score 19; DB 3; Length 247;
Best Local Similarity 100.0%; Pred. No. 9.5e-11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEV 24
|||||
Db 22 LTHPITKYIMACMSADLEV 40
|||||

RESULT 14
US-08-700-356-1
; Sequence 1, Application US/08700356
; Patent No. 5739002
; GENERAL INFORMATION:
; APPLICANT: DE FRANCESCO, Raffaele
; APPLICANT: FAILLA, Cristina

;
; APPLICANT: TOMEI, Licia
; TITLE OF INVENTION: METHOD FOR REPRODUCING IN VITRO THE
; TITLE OF INVENTION: PROTEOLYTIC ACTIVITY OF THE NS3 HEPATITIS C VIRUS (HCV)
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS: 3
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/700,356
; FILING DATE: 23-AUG-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: DE FRANCESCO-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 631 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-700-356-1

Query Match 14.3%; Score 19; DB 1; Length 631;
Best Local Similarity 100.0%; Pred. No. 2.3e-10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEV 24
|||||
Db 611 LTHPITKYIMACMSADLEV 629
|||||

RESULT 15
US-08-936-865-1
; Sequence 1, Application US/08936865
; Patent No. 5861297
; GENERAL INFORMATION:
; APPLICANT: Sardana, Vinod V
; APPLICANT: Blue, Jeffrey T
; TITLE OF INVENTION: DETERGENT-FREE HEPATITIS C PROTEASE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MERCK & CO., INC.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: US
; ZIP: 07065-0907
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/936,865
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ayler, Sylvia A
; REGISTRATION NUMBER: 36,436

```
; REFERENCE/DOCKET NUMBER: 19691
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-594-4909
; TELEFAX: 908-594-4720
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 631 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis C Virus
; STRAIN: NS3 Serine Protease Domain
; INDIVIDUAL ISOLATE: BK
; IMMEDIATE SOURCE:
; LIBRARY: described by Tomei et al. in 1993
; CLONE: cDNA clone pCD (38-9.4)
; POSITION IN GENOME:
; MAP POSITION: 1-180
;
US-08-936-865-1

Query Match      14.3%; Score 19; DB 2; Length 631;
Best Local Similarity 100.0%; Pred.No. 2.3e-10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      6 LTHPITKYIMACMSADLEV 24
Db      611 LTHPITKYIMACMSADLEV 629
```

Search completed: February 25, 2004, 01:54:33
Job time : 24 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 25, 2004, 01:53:15 ; Search time 34 Seconds
(without alignments)
825.982 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 133
Sequence: 1 QNEICLTHPTIKYIMACMSA.....VIEPIVTTNQKLEAFWHKH 133

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 809742 seqs, 211153259 residues

Word size : 0

Total number of hits satisfying chosen parameters: 809742

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA.*

```
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	133	100.0	133	10	US-09-899-046-36
2	133	100.0	133	10	US-09-878-281-36
3	98	73.7	133	10	US-09-899-046-36
4	98	73.7	133	10	US-09-899-046-36
5	98	73.7	133	10	US-09-899-046-36
6	98	73.7	133	10	US-09-878-281-38
7	98	73.7	209	10	US-09-878-281-40
8	98	73.7	209	10	US-09-899-046-223
9	52	39.1	133	10	US-09-878-281-223
10	52	39.1	133	10	US-09-899-046-32
11	52	39.1	133	10	US-09-899-046-34
12	52	39.1	133	10	US-09-878-281-32
13	48	36.1	128	14	US-09-878-281-34
14	41	30.8	829	9	US-10-396-964-17
15	41	30.8	1099	9	US-09-881-239-5
					US-09-881-654-4

16	20	15.0	20	10	US-09-899-046-97	Sequence 97, Appl
17	20	15.0	20	10	US-09-878-281-97	Sequence 97, Appl
18	19	14.3	19	14	US-10-396-964-2	Sequence 2, Appli
19	19	14.3	95	10	US-09-899-046-30	Sequence 30, Appl
20	19	14.3	95	10	US-09-878-281-30	Sequence 30, Appl
21	19	14.3	481	10	US-09-899-046-270	Sequence 270, App
22	19	14.3	481	10	US-09-878-281-270	Sequence 270, App
23	19	14.3	484	10	US-09-899-046-198	Sequence 198, App
24	19	14.3	484	10	US-09-899-046-200	Sequence 200, App
25	19	14.3	484	10	US-09-878-281-198	Sequence 198, App
26	19	14.3	484	10	US-09-878-281-200	Sequence 200, App
27	19	14.3	1692	10	US-09-919-901-4	Sequence 4, Appli
28	19	14.3	1692	10	US-09-919-901-11	Sequence 11, Appl
29	19	14.3	1692	10	US-09-919-901-18	Sequence 18, Appl
30	19	14.3	1692	14	US-10-191-966-4	Sequence 4, Appli
31	19	14.3	1692	14	US-10-191-966-11	Sequence 11, Appl
32	19	14.3	1692	14	US-10-191-966-18	Sequence 18, Appl
33	19	14.3	2201	13	US-10-085-476-2	Sequence 2, Appli
34	19	14.3	2307	10	US-09-919-901-2	Sequence 2, Appli
35	19	14.3	2307	10	US-09-919-901-9	Sequence 9, Appli
36	19	14.3	2307	10	US-09-919-901-16	Sequence 16, Appl
37	19	14.3	2307	14	US-10-191-966-2	Sequence 2, Appli
38	19	14.3	2307	14	US-10-191-966-9	Sequence 9, Appli
39	19	14.3	2307	14	US-10-191-966-16	Sequence 16, Appl
40	19	14.3	2985	14	US-10-259-275-40	Sequence 40, Appl
41	18	13.5	20	10	US-09-899-046-99	Sequence 99, Appl
42	18	13.5	20	10	US-09-878-281-99	Sequence 99, Appl
43	18	13.5	1985	14	US-10-259-275-42	Sequence 42, Appl
44	18	13.5	2201	13	US-10-029-907-3	Sequence 3, Appli
45	18	13.5	2201	14	US-10-309-561-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-899-046-36
; Sequence 36, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-36

Query Match 100.0%; Score 133; DB 10; Length 133;
Best Local Similarity 100.0%; Pred. No. 7.6e-121;
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNEICLTHPTIKYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVWVIGHLEGGK 60

Db 1 QNEICLTHPTIKYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVWVIGHLEGGK 60

QY 61 PAIVPDKVLYQQVDMEECQAAPYIEQAQVIAHQFKVGLLQRAATQQAIVPT 120

QY 61 PAIPVDKEVLYQYDEMEBCSOAPYIEQAQVIAHQFK 98
Db 137 PAIPVDKEVLYQYDEMEBCSOAPYIEQAQVIAHQFK 174

RESULT 9

US-09-899-046-32
; Sequence 32, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-32

Query Match 39.1%; Score 52; DB 10; Length 133;
Best Local Similarity 100.0%; Pred. No. 1.8e-42;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62
Db 11 TKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62

RESULT 10

US-09-899-046-34
; Sequence 34, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-34

Query Match 39.1%; Score 52; DB 10; Length 133;
Best Local Similarity 100.0%; Pred. No. 1.8e-42;

Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 11 TKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62
Db 11 TKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62

RESULT 11

US-09-878-281-32
; Sequence 32, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-32

Query Match 39.1%; Score 52; DB 10; Length 133;
Best Local Similarity 100.0%; Pred. No. 1.8e-42;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62
Db 11 TKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62

RESULT 12

US-09-878-281-34
; Sequence 34, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-34

Query Match 39.1%; Score 52; DB 10; Length 133;

Best Local Similarity 100.0%; Pred. No. 1.8e-42;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVIVGHIELGGKPA 62
Db 11 TKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVIVGHIELGGKPA 62

RESULT 13

US-10-396-964-17
; Sequence 17, Application US/10396964
; Publication No. US20030198946A1
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. US20030198946A1th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/396,964
; FILING DATE: 23-MARCH-2003
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEetical: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
; US-10-396-964-17

Query Match 36.1%; Score 48; DB 14; Length 128;
Best Local Similarity 100.0%; Pred. No. 1.3e-38;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 MACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVIVGHIELGGKPA 62
Db 9 MACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVIVGHIELGGKPA 56

RESULT 14

US-09-881-239-5
; Sequence 5, Application US/09881239

Publication No. US20020192639A1
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: ARCANGEL, Phillip
; APPLICANT: TANDESKE, Laura
; APPLICANT: GEORGE-NASCIEMENTO, Carlos
; APPLICANT: COIT, Doris
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: HCV ANTIGEN/ANTIBODY COMBINATION ASSAY
; FILE REFERENCE: 2302-16073 / PP16073.003
; CURRENT APPLICATION NUMBER: US/09/881,239
; CURRENT FILING DATE: 2001-06-14
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 829
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 12
US-09-881-239-5

Query Match 30.8%; Score 41; DB 9; Length 829;
Best Local Similarity 100.0%; Pred. No. 4e-31;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GSKPAIVDPKVLVYQYDEMEECSQAAPYIEQAQVIAHQFK 98
Db 444 GSKPAIVDPKVLVYQYDEMEECSQAAPYIEQAQVIAHQFK 484

RESULT 15

US-09-881-654-4
; Sequence 4, Application US/09881654
; Patent No. US20020146685A1
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: ARCANGEL, Phillip
; APPLICANT: TANDESKE, Laura
; APPLICANT: GEORGE-NASCIEMENTO, Carlos
; APPLICANT: COIT, Doris
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES
; FILE REFERENCE: 2302-17039 / PP17039.002
; CURRENT APPLICATION NUMBER: US/09/881,654
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: 60/212,082
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/280,811
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/280,867
; PRIOR FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1099
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1
US-09-881-654-4

Query Match 30.8%; Score 41; DB 9; Length 1099;
Best Local Similarity 100.0%; Pred. No. 5.2e-31;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GSKPAIVDPKVLVYQYDEMEECSQAAPYIEQAQVIAHQFK 98
Db 748 GSKPAIVDPKVLVYQYDEMEECSQAAPYIEQAQVIAHQFK 788

Search completed: February 25, 2004, 01:58:57
Job time : 35 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: February 27, 2004, 21:50:18 ; Search time 64 Seconds
(without alignments)
1153.257 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 133

Sequence: 1 QNEICLTHPIYIMACMSA.....VIEPIVTNNWQKLEAFWHKH 133

Scoring table:

OLIGO
Xgapop 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1360453

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

-MODEL=frame+pn.model -DEV=xlh
-Q=/cgn2_1/USPTO.spool/US09638693/runat_24022004_135649_6723/app_query.fasta_1.327
-DB=Issued Patents NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40 cdi
-LIST=45 -DOCALLIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09638693@cgn_1_1_44 @runat_24022004_135649_6723 -NCPUS=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA:*
1: /cgn2_6/prodata/2/ina/5A COMB.seq:*
2: /cgn2_6/prodata/2/ina/5B COMB.seq:*
3: /cgn2_6/prodata/2/ina/6A COMB.seq:*
4: /cgn2_6/prodata/2/ina/6B COMB.seq:*
5: /cgn2_6/prodata/2/ina/PCUTUS COMB.seq:*
6: /cgn2_6/prodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	48	36.1	367	1	US-08-244-116B-16
2	41	30.8	2499	4	US-09-881-239-4
3	41	30.8	3297	4	US-09-881-654-3
4	19	14.3	741	1	US-08-324-977-43
5	19	14.3	741	2	US-08-384-616-43
6	19	14.3	741	2	US-08-904-686A-43
7	19	14.3	741	3	US-09-315-850-43
8	19	14.3	1941	3	US-09-198-723A-116
9	19	14.3	1941	3	US-09-198-723A-117
10	19	14.3	1941	3	US-09-198-723A-118
11	19	14.3	1941	3	US-09-198-723A-119
12	19	14.3	1941	3	US-09-198-723A-120

13	19	14.3	1941	4	US-09-684-881-116	Sequence 116, App
14	19	14.3	1941	4	US-09-684-881-117	Sequence 117, App
15	19	14.3	1941	4	US-09-684-881-118	Sequence 118, App
16	19	14.3	1941	4	US-09-684-881-119	Sequence 119, App
17	19	14.3	1941	4	US-09-684-881-120	Sequence 120, App
18	19	14.3	1998	3	US-09-198-723A-102	Sequence 102, App
19	19	14.3	1998	3	US-09-198-723A-103	Sequence 103, App
20	19	14.3	1998	3	US-09-198-723A-104	Sequence 104, App
21	19	14.3	1998	3	US-09-198-723A-105	Sequence 105, App
22	19	14.3	1998	3	US-09-198-723A-106	Sequence 106, App
23	19	14.3	1998	3	US-09-198-723A-107	Sequence 107, App
24	19	14.3	1998	3	US-09-198-723A-108	Sequence 108, App
25	19	14.3	1998	3	US-09-198-723A-109	Sequence 109, App
26	19	14.3	1998	4	US-09-684-881-102	Sequence 102, App
27	19	14.3	1998	4	US-09-684-881-103	Sequence 103, App
28	19	14.3	1998	4	US-09-684-881-104	Sequence 104, App
29	19	14.3	1998	4	US-09-684-881-105	Sequence 105, App
30	19	14.3	1998	4	US-09-684-881-106	Sequence 106, App
31	19	14.3	1998	4	US-09-684-881-107	Sequence 107, App
32	19	14.3	1998	4	US-09-684-881-108	Sequence 108, App
33	19	14.3	1998	4	US-09-684-881-109	Sequence 109, App
34	19	14.3	2016	3	US-09-198-723A-110	Sequence 110, App
35	19	14.3	2016	3	US-09-198-723A-111	Sequence 111, App
36	19	14.3	2016	4	US-09-684-881-110	Sequence 110, App
37	19	14.3	2016	4	US-09-684-881-111	Sequence 111, App
38	19	14.3	6039	1	US-08-324-977-11	Sequence 11, App
39	19	14.3	6039	2	US-08-384-616-11	Sequence 11, App
40	19	14.3	6039	2	US-08-904-686A-11	Sequence 11, App
41	19	14.3	6039	3	US-09-315-850-11	Sequence 11, App
42	19	14.3	7863	1	US-08-324-977-35	Sequence 35, App
43	19	14.3	7863	2	US-08-384-616-35	Sequence 35, App
44	19	14.3	7863	2	US-08-904-686A-35	Sequence 35, App
45	19	14.3	7863	3	US-09-315-850-35	Sequence 35, App

ALIGNMENTS

RESULT 1

US-08-244-116B-16
; Sequence 16, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 5763159th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435
; PRIORITY APPLICATION: 435
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014

RESULT 4
US-08-324-977-43
; Sequence 43, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeeland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 741 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna from genomic RNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..741
; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..741
; US-08-324-977-43

Alignment Scores:
Pred. No.: 1.2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 1 Gaps: 0
US-09-638-693-36 (1-133) x US-08-324-977-43 (1-741)
QY 6 LeuThrHisProIleThrIysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
DB 64 CTCACCCACCCATACCAATACATCATGTCATGCGCTGACCTGGAGGTC 120
RESULT 5
US-08-384-616-43
; Sequence 43, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeeland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 741 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna from genomic RNA

```
;
;
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..741
; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..741
; US-08-384-616-43

Alignment Scores:
Pred. No.: 1.2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 2 Gaps: 0

US-09-638-693-36 (1-133) x US-08-384-616-43 (1-741)

QY 6 LeuThrHisProIleThrIysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 64 CTCACCCACCCATAACCAATACATCATGGCATGTCGCTGACCTGGAGGTC 120

RESULT 6
US-08-904-686A-43
; Sequence 43, Application US/08904686A
; Patent No. 5996130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
```

```
;
;
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mclelland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 741 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..741
; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..741
; US-08-904-686A-43

Alignment Scores:
Pred. No.: 1.2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 2 Gaps: 0

US-09-638-693-36 (1-133) x US-08-904-686A-43 (1-741)

QY 6 LeuThrHisProIleThrIysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 64 CTCACCCACCCATAACCAATACATCATGGCATGTCGCTGACCTGGAGGTC 120

RESULT 7
US-09-315-850-43
; Sequence 43, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/315,850
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686
; FILING DATE: 01-AUG-1997
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
```

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: JP 2-167466
;; FILING DATE: 25-JUN-1990
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: JP 2-230921
;; FILING DATE: 31-AUG-1990
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: JP 2-305605
;; FILING DATE: 09-NOV-1990
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/099,706
;; FILING DATE: 30-JUL-1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/769,996
;; FILING DATE: 02-OCT-1991
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/635,451
;; FILING DATE: 28-DEC-1990
;; ATTORNEY/AGENT INFORMATION:
;; NAME: McLeand, Le-Nhung
;; REGISTRATION NUMBER: 31,541
;; REFERENCE/DOCKET NUMBER: 900703G
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (202) 659-2930
;; INFORMATION FOR SEQ ID NO: 43:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 741 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA from genomic RNA
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: 1..741
;; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
;; OTHER INFORMATION: SEQ ID NO: 1"
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 1..741
US-09-315-850-43

Alignment Scores:
Pred. No.: 1,2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
Indels: 0
DB: 0
Gaps: 0

US-09-638-693-36 (1-133) x US-09-315-850-43 (1-741)

QY 6 LeuThrHisProIleThrIleTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 64 CTCACCCACCCATAACCAATACATCATGCGCATGCGTGCCTGGAGGTC 120

RESULT 8
US-09-198-723A-116
; Sequence 116, Application US/09198723A
; Patent No. 6211338
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahrar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; NUMBER OF SEQUENCES: 123
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corp.
; STREET: 2000 Galloping Hill Road
; CITY: Kenilworth
; STATE: New Jersey
; ZIP: 07030
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: 8.0.1
; SOFTWARE: Microsoft Word 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,723A
; FILING DATE: 24 NOV 1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:

;; COUNTRY: USA
;; ZIP: 07030
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: Power Macintosh
;; OPERATING SYSTEM: 8.0.1
;; SOFTWARE: Microsoft Word 6.0.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/198,723A
;; FILING DATE: 24 NOV 1998
;; CLASSIFICATION:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: McLaughlin, Jaye P.
;; REGISTRATION NUMBER: 41,211
;; REFERENCE/DOCKET NUMBER: JB0800
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (908)298-5056
;; TELEFAX: (908)298-5388
;; INFORMATION FOR SEQ ID NO: 116:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1941 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 1..1941
US-09-198-723A-116

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
Indels: 0
DB: 0
Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-116 (1-1941)

QY 6 LeuThrHisProIleThrIleTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCATAACCAATACATCATGCGCATGCGTGCCTGGAGGTC 1932

RESULT 9
US-09-198-723A-117
; Sequence 117, Application US/09198723A
; Patent No. 6211338
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahrar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; NUMBER OF SEQUENCES: 123
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corp.
; STREET: 2000 Galloping Hill Road
; CITY: Kenilworth
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07030
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: 8.0.1
; SOFTWARE: Microsoft Word 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,723A
; FILING DATE: 24 NOV 1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:

NAME: McLaughlin, Jaye P.
REGISTRATION NUMBER: 41,211
REFERENCE/DOCKET NUMBER: JB0800
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908)298-5056
TELEFAX: (908)298-5388
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 1941 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1941

US-09-198-723A-117

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-117 (1-1941)

QY 6 LeuThrHisProIleThrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCATAACCAATACATGTCATGTCGCGCCGACCTGGAGGTC 1932

RESULT 10

US-09-198-723A-118
Sequence 118, Application US/09198723A
Patent No. 6211338
GENERAL INFORMATION:
APPLICANT: Malcolm, Bruce
APPLICANT: Taremi, Shahrar S.
APPLICANT: Weber, Patricia
APPLICANT: Yao, Nannua
TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
NUMBER OF SEQUENCES: 123
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corp.
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey
COUNTRY: USA
ZIP: 07030

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Power Macintosh
OPERATING SYSTEM: 8.0.1
SOFTWARE: Microsoft Word 6.0.1
CURRENT APPLICATION NUMBER: US/09/198,723A
FILING DATE: 24 NOV 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McLaughlin, Jaye P.
REGISTRATION NUMBER: 41,211
REFERENCE/DOCKET NUMBER: JB0800
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908)298-5056
TELEFAX: (908)298-5388

INFORMATION FOR SEQ ID NO: 118:
SEQUENCE CHARACTERISTICS:
LENGTH: 1941 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1941
US-09-198-723A-118

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-118 (1-1941)

QY 6 LeuThrHisProIleThrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCATAACCAATACATGTCATGTCGCGCCGACCTGGAGGTC 1932

RESULT 11

US-09-198-723A-119
Sequence 119, Application US/09198723A
Patent No. 6211338
GENERAL INFORMATION:
APPLICANT: Malcolm, Bruce
APPLICANT: Taremi, Shahrar S.
APPLICANT: Weber, Patricia
APPLICANT: Yao, Nannua
TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
NUMBER OF SEQUENCES: 123
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corp.
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey
COUNTRY: USA
ZIP: 07030

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Power Macintosh
OPERATING SYSTEM: 8.0.1
SOFTWARE: Microsoft Word 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/198,723A
FILING DATE: 24 NOV 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McLaughlin, Jaye P.
REGISTRATION NUMBER: 41,211
REFERENCE/DOCKET NUMBER: JB0800

TELECOMMUNICATION INFORMATION:
TELEPHONE: (908)298-5056
TELEFAX: (908)298-5388
INFORMATION FOR SEQ ID NO: 119:
SEQUENCE CHARACTERISTICS:
LENGTH: 1941 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1941
US-09-198-723A-119

Alignment Scores:

Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0

DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-119 (1-1941)

QY 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
DB 1876 CTCACCCACCCATAACCAATAATACATGTCATGTCGCGCCGACCTGGAGGTC 1932

RESULT 12

US-09-198-723A-120
; Sequence 120, Application US/09198723A
; Patent No. 6211338
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahrar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide
; NUMBER OF SEQUENCES: 123
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corp.
; STREET: 2000 Galloping Hill Road
; CITY: Kenilworth
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07030
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: 8.0.1
; SOFTWARE: Microsoft Word 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,723A
; FILING DATE: 24 NOV 1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: McLaughlin, Jaye P.
; REGISTRATION NUMBER: 41,211
; REFERENCE/DOCKET NUMBER: JB0800
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908)298-5056
; TELEFAX: (908)298-5388
; INFORMATION FOR SEQ ID NO: 120:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1941 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1941
US-09-198-723A-120

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-120 (1-1941)

QY 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCATAACCAATAATACATGTCATGTCGCGCCGACCTGGAGGTC 1932

RESULT 13

US-09-684-881-116
; Sequence 116, Application US/09684881
; Patent No. 6653127
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahrar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide
; NUMBER OF SEQUENCES: 123

GENERAL INFORMATION:
APPLICANT: Malcolm, Bruce
Taremi, Shahrar S.
Weber, Patricia
Yao, Nanhua
TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide
NUMBER OF SEQUENCES: 123
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corp.
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey
COUNTRY: USA
ZIP: 07030
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Power Macintosh
OPERATING SYSTEM: 8.0.1
SOFTWARE: Microsoft Word 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/684,881
FILING DATE: 06-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/198,723
FILING DATE: 24 NOV 1998
ATTORNEY/AGENT INFORMATION:
NAME: McLaughlin, Jaye P.
REGISTRATION NUMBER: 41,211
REFERENCE/DOCKET NUMBER: JB0800
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908)298-5056
TELEFAX: (908)298-5388
INFORMATION FOR SEQ ID NO: 116:
SEQUENCE CHARACTERISTICS:
LENGTH: 1941 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1941
SEQUENCE DESCRIPTION: SEQ ID NO: 116:
US-09-684-881-116

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-684-881-116 (1-1941)

QY 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCATAACCAATAATACATGTCATGTCGCGCCGACCTGGAGGTC 1932

RESULT 14

US-09-684-881-117
; Sequence 117, Application US/09684881
; Patent No. 6653127
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahrar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide
; NUMBER OF SEQUENCES: 123

CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corp.
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey
COUNTRY: USA
ZIP: 07030

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Power Macintosh
OPERATING SYSTEM: 8.0.1
SOFTWARE: Microsoft Word 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/684,881
FILING DATE: 06-Oct-2000
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/198,723
FILING DATE: 24 NOV 1998
ATTORNEY/AGENT INFORMATION:
NAME: McLaughlin, Jaye P.
REGISTRATION NUMBER: 41,211
REFERENCE/DOCKET NUMBER: JB0800
TELEPHONE: (908)298-5056
TELEFAX: (908)298-5388
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 1941 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
FEATURE:

NAME/KEY: CDS
LOCATION: 1..1941
SEQUENCE DESCRIPTION: SEQ ID NO: 117:
US-09-684-881-117

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-684-881-117 (1-1941)

QY 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCCAATACCAATACATGCGCATGTCGCGCGACCTGGAGGTC 1932

RESULT 15

US-09-684-881-118
Sequence 118, Application US/09684881
Patent No. 6653127

GENERAL INFORMATION:
APPLICANT: Malcolin, Bruce
Taremi, Shahriar S.
Weber, Patricia
Yao, Nanhua

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
NS3 Protease and NS4A Cofactor Peptide

NUMBER OF SEQUENCES: 123

CORRESPONDENCE ADDRESS:

ADDRESSEE: Schering-Plough Corp.
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey
COUNTRY: USA
ZIP: 07030

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: Power Macintosh
OPERATING SYSTEM: 8.0.1
SOFTWARE: Microsoft Word 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/684,881
FILING DATE: 06-Oct-2000
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/198,723
FILING DATE: 24 NOV 1998
ATTORNEY/AGENT INFORMATION:

NAME: McLaughlin, Jaye P.
REGISTRATION NUMBER: 41,211
REFERENCE/DOCKET NUMBER: JB0800
TELEPHONE: (908)298-5056
TELEFAX: (908)298-5388
INFORMATION FOR SEQ ID NO: 118:
SEQUENCE CHARACTERISTICS:

LENGTH: 1941 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
FEATURE:

NAME/KEY: CDS
LOCATION: 1..1941
SEQUENCE DESCRIPTION: SEQ ID NO: 118:
US-09-684-881-118

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-684-881-118 (1-1941)

QY 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCCAATACCAATACATGCGCATGTCGCGCGACCTGGAGGTC 1932

Search completed: February 27, 2004, 22:50:43
Job time : 68 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: February 27, 2004, 22:44:55 ; Search time 252 Seconds
(without alignments)
1903.941 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 133

Sequence: 1 QNEICLTHPTIKYIMACMSA.....VIEPIVTINWQLEAFWHKH 133

Scoring table: OLIGO

Xgapop 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delopt 6.0 , Delext 7.0

Searched: 2353733 seqs, 1803733377 residues

Word size: 1

Total number of hits satisfying chosen parameters: 4700994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters: -MODEL=frame+ p2n.model -DEV=xlh

-O=/cgn2_1/USPTO spool/US09638693/runat_24022004.135650_6761/app query.fasta_1.327
-DB=Published Applications NA -QWFAST=cap -SUFFIX=rnpb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09638693@cgn 1.1.164 @runat_24022004.135650_6761
-NCPU=6 -ICPU=3 -NO WMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60
-XGAPOP=6 -XGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications NA:

1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	Query	Match	Length	DB	ID	Description
--------	-------	-------	--------	----	----	-------------

1	133	100.0	401	10	US-09-899-046-35	Sequence 35, Appl
2	133	100.0	401	10	US-09-878-281-35	Sequence 35, Appl
3	98	73.7	401	10	US-09-899-046-37	Sequence 37, Appl
4	98	73.7	401	10	US-09-899-046-39	Sequence 39, Appl
5	98	73.7	401	10	US-09-878-281-37	Sequence 37, Appl
6	98	73.7	401	10	US-09-878-281-39	Sequence 39, Appl
7	98	73.7	629	10	US-09-899-046-222	Sequence 222, App
8	98	73.7	629	10	US-09-878-281-222	Sequence 222, App
9	52	39.1	401	10	US-09-899-046-31	Sequence 31, Appl
10	52	39.1	401	10	US-09-899-046-33	Sequence 33, Appl
11	52	39.1	401	10	US-09-878-281-31	Sequence 31, Appl
12	52	39.1	401	10	US-09-878-281-33	Sequence 33, Appl
13	48	36.1	367	14	US-10-396-964-16	Sequence 16, Appl
14	41	30.8	2499	9	US-09-881-239-4	Sequence 4, Appl
15	41	30.8	3297	9	US-09-881-654-3	Sequence 3, Appl
16	19	14.3	287	10	US-09-899-046-29	Sequence 29, Appl
17	19	14.3	287	10	US-09-878-281-29	Sequence 29, Appl
18	19	14.3	1443	10	US-09-899-046-269	Sequence 269, App
19	19	14.3	1443	10	US-09-878-281-269	Sequence 269, App
20	19	14.3	1485	10	US-09-899-046-197	Sequence 197, App
21	19	14.3	1485	10	US-09-899-046-199	Sequence 199, App
22	19	14.3	1485	10	US-09-878-281-197	Sequence 197, App
23	19	14.3	1485	10	US-09-878-281-199	Sequence 199, App
24	19	14.3	9275	14	US-10-259-275-39	Sequence 39, Appl
25	19	14.3	9413	10	US-09-827-688-6	Sequence 6, Appl
26	19	14.3	13910	10	US-09-919-901-1	Sequence 1, Appl
27	19	14.3	13910	10	US-09-919-901-8	Sequence 8, Appl
28	19	14.3	13910	10	US-09-919-901-15	Sequence 15, Appl
29	19	14.3	13910	14	US-10-191-966-1	Sequence 1, Appl
30	19	14.3	13910	14	US-10-191-966-8	Sequence 8, Appl
31	19	14.3	13910	14	US-10-191-966-15	Sequence 15, Appl
32	18	13.5	6189	14	US-10-259-275-41	Sequence 41, Appl
33	18	13.5	7989	15	US-10-434-842-16	Sequence 16, Appl
34	18	13.5	7992	13	US-10-005-469-1	Sequence 1, Appl
35	18	13.5	7992	13	US-10-005-469-2	Sequence 2, Appl
36	18	13.5	7992	13	US-10-005-469-4	Sequence 4, Appl
37	18	13.5	7992	13	US-10-005-469-5	Sequence 5, Appl
38	18	13.5	7992	13	US-10-005-469-6	Sequence 6, Appl
39	18	13.5	7992	15	US-10-434-842-1	Sequence 1, Appl
40	18	13.5	7992	15	US-10-434-842-2	Sequence 2, Appl
41	18	13.5	7992	15	US-10-434-842-4	Sequence 4, Appl
42	18	13.5	7992	15	US-10-434-842-5	Sequence 5, Appl
43	18	13.5	7992	15	US-10-434-842-6	Sequence 6, Appl
44	18	13.5	7992	15	US-10-434-842-15	Sequence 15, Appl
45	18	13.5	7992	15	US-10-434-842-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1
US-09-899-046-35
; Sequence 35, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 401 base pairs
; TYPE: nucleic acid

SEQUENCE CHARACTERISTICS:
LENGTH: 401 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
IMMEDIATE SOURCE:
CLONE: BR36-20-166
FEATURE:
NAME/KEY: CDS
LOCATION: 3..401
US-09-899-046-37

Alignment Scores:
Pred. No.: 2,436-96 Length: 401
Score: 98.00 Matches: 132
Percent Similarity: 98.51% Conservative: 0
Best Local Similarity: 98.51% Mismatches: 1
Query Match: 73.68% Indels: 2
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-37 (1-401)

```
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
DB 3 CAAATGAAATCTGCTTGACACACCCCATCAAAATACATCATGCGATGCGATGTCAGCT 62
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
DB 63 GATCTGGAAAGTAACACACACACCTGGGTTTGTCTGGAGGGTCTCTCGGCGCCCTAGGC 122
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGly 60
DB 123 GCCTACTGCTTGTGCTGAGTCGGTGTGTGTGATGTTGGGTTCATTCAGCTGGGGGCGAAG 182
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnTyrAspGluMetGluGluCys 80
DB 183 CCGGCAATCGTTCACAGACAGAGGTGTGTATCAACATACGATGAGATGGAAGGTGC 242
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGly 100
DB 243 TCACAGCTGCCCATATATCGAACAGCTCAGGTGATAGCTCACCAGTTCAA-GGAAAA 301
QY 100 sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValIleGluProIleValTh 120
DB 302 ACTCCTTGATTTGCTGCACGAGCCACCCACACAGCTGTCATTTGAGCCCATAGTAAC 361
QY 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
DB 362 TACCAACTGGCAAAAGCTTGAGGCGCTTTTGGCACAGCAT 401
```

RESULT 4

US-09-899-046-39
; Sequence 39, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 39:

SEQUENCE CHARACTERISTICS:
LENGTH: 401 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
IMMEDIATE SOURCE:
CLONE: BR36-20-165
FEATURE:
NAME/KEY: CDS
LOCATION: 3..401
US-09-899-046-39

Alignment Scores:
Pred. No.: 2,436-96 Length: 401
Score: 98.00 Matches: 132
Percent Similarity: 98.51% Conservative: 0
Best Local Similarity: 98.51% Mismatches: 1
Query Match: 73.68% Indels: 2
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-39 (1-401)

```
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
DB 3 CAAATGAAATCTGCTTGACACACCCCATCAAAATACATCATGCGATGCGATGTCAGCT 62
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
DB 63 GATCTGGAAAGTAACACACACACCTGGGTTTGTCTGGAGGGTCTCTCGGCGCCCTAGGC 122
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGly 60
DB 123 GCCTACTGCTTGTGCTGAGTCGGTGTGTGTGATGTTGGGTTCATTCAGCTGGGGGCGAAG 182
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnTyrAspGluMetGluGluCys 80
DB 183 CCGGCAATCGTTCACAGACAGAGGTGTGTATCAACATACGATGAGATGGAAGGTGC 242
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGly 100
DB 243 TCACAGCTGCCCATATATCGAACAGCTCAGGTGATAGCTCACCAGTTCAA-GGAAAA 301
QY 100 sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValIleGluProIleValTh 120
DB 302 ACTCCTTGATTTGCTGCACGAGCCACCCACACAGCTGTCATTTGAGCCCATAGTAAC 361
QY 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
DB 362 TACCAACTGGCAAAAGCTTGAGGCGCTTTTGGCACAGCAT 401
```

RESULT 5

US-09-878-281-37
; Sequence 37, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:


```
/ APPLICATION NUMBER: 08/362,455
/ FILING DATE:
/ INFORMATION FOR SEQ ID NO: 222:
/ SEQUENCE CHARACTERISTICS:
/   LENGTH: 629 base pairs
/   TYPE: nucleic acid
/   STRANDEDNESS: single
/   TOPOLOGY: linear
/   MOLECULE TYPE: cDNA
/   HYPOTHETICAL: NO
/   ANTI-SENSE: NO
/   FEATURE:
/     NAME/KEY: CDS
/     LOCATION: 3..629
/   FEATURE:
/     NAME/KEY: mat_peptide
/     LOCATION: 3..629
/ US-09-899-046-222
/
/ Alignment Scores:
/ Pred. No.: 3,68e-96 Length: 629
/ Score: 98.00 Matches: 132
/ Percent Similarity: 98.51% Conservative: 0
/ Best Local Similarity: 98.51% Mismatches: 1
/ Query Match: 73.68% Indels: 2
/ DB: 10 Gaps: 0
/
/ US-09-638-693-36 (1-133) x US-09-899-046-222 (1-629)
/
/ QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
/ Db 231 CAAATGAAATCTGTTGACACACCCCATCACAAAATACATCATGTCATGTCAGCT 290
/
/ QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
/ Db 291 GATCTGGAAGTACCAACACAGCTGGGTTTGTCTGGAGGGGTCTCTCGGCCCTTAGCG 350
/
/ QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60
/ Db 351 GCCTACTGTTGTCAGTCGGTTGTGTGTGATTGTGGTTCATATCGAGCTGGGGGCAAG 410
/
/ QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluCys 80
/ Db 411 CCGGCAATCGTTCACAGCAAGAGGTGTGTATCAACAATACGATGAGATGGAAGAGTGC 470
/
/ QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGly-Ly 100
/ Db 471 TCACAAGCTGCCCATATATCGAACAGCTCAGGTAACTAGCTCACCAGTCAA-GGAAA 529
/
/ QY 100 sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValTh 120
/ Db 530 AGTCCTTGGATTGTCAGCGAGCCACCACCAACCAAGCTGTCTATTGAGCCCATAGTAA 589
/
/ QY 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
/ Db 590 TACCAACTGGCAAAAGCTTGGAGCCCTTTGGCACAAGCAT 629
/
/ RESULT 8
/ US-09-878-281-222
/ Sequence 222, Application US/09878281
/ Publication No. US20030032005A1
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: New sequences of hepatitis C virus
/ TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
/ NUMBER OF SEQUENCES: 270
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/878,281
```

```
/ FILING DATE:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/362,455
/ FILING DATE:
/ INFORMATION FOR SEQ ID NO: 222:
/ SEQUENCE CHARACTERISTICS:
/   LENGTH: 629 base pairs
/   TYPE: nucleic acid
/   STRANDEDNESS: single
/   TOPOLOGY: linear
/   MOLECULE TYPE: cDNA
/   HYPOTHETICAL: NO
/   ANTI-SENSE: NO
/   FEATURE:
/     NAME/KEY: CDS
/     LOCATION: 3..629
/   FEATURE:
/     NAME/KEY: mat_peptide
/     LOCATION: 3..629
/ US-09-878-281-222
/
/ Alignment Scores:
/ Pred. No.: 3,68e-96 Length: 629
/ Score: 98.00 Matches: 132
/ Percent Similarity: 98.51% Conservative: 0
/ Best Local Similarity: 98.51% Mismatches: 1
/ Query Match: 73.68% Indels: 2
/ DB: 10 Gaps: 0
/
/ US-09-638-693-36 (1-133) x US-09-878-281-222 (1-629)
/
/ QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
/ Db 231 CAAATGAAATCTGTTGACACACCCCATCACAAAATACATCATGTCATGTCAGCT 290
/
/ QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
/ Db 291 GATCTGGAAGTACCAACACAGCTGGGTTTGTCTGGAGGGGTCTCTCGGCCCTTAGCG 350
/
/ QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60
/ Db 351 GCCTACTGTTGTCAGTCGGTTGTGTGTGATTGTGGTTCATATCGAGCTGGGGGCAAG 410
/
/ QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluCys 80
/ Db 411 CCGGCAATCGTTCACAGCAAGAGGTGTGTATCAACAATACGATGAGATGGAAGAGTGC 470
/
/ QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGly-Ly 100
/ Db 471 TCACAAGCTGCCCATATATCGAACAGCTCAGGTAACTAGCTCACCAGTCAA-GGAAA 529
/
/ QY 100 sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValTh 120
/ Db 530 AGTCCTTGGATTGTCAGCGAGCCACCACCAACCAAGCTGTCTATTGAGCCCATAGTAA 589
/
/ QY 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
/ Db 590 TACCAACTGGCAAAAGCTTGGAGCCCTTTGGCACAAGCAT 629
/
/ RESULT 9
/ US-09-899-046-31
/ Sequence 31, Application US/09899046
/ Publication No. US20030008274A1
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: New sequences of hepatitis C virus
/ TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
/ NUMBER OF SEQUENCES: 270
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
```


/ ANTI-SENSE: NO
/ IMMEDIATE SOURCE:
/ CLONE: HD10-1-25
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 3..401
/ US-09-878-281-31

Alignment Scores:

Pred. No.: 8,72e-47 Length: 401
Score: 52.00 Matches: 87
Percent Similarity: 97.75% Conservative: 0
Best Local Similarity: 97.75% Mismatches: 1
Query Match: 39.10% Indels: 2
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-878-281-31 (1-401)

QY 11 ThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTrpVal 30
Db 33 ACAAATACATTATGGCATGTCAGCTGATCTGGAAGTAACCAACGACCTGGGTG 92
QY 31 LeuLeuGlyGlyValLeuAlaLeuAlaAlaTyrCysLeuSerValGlyCysValVal 50
Db 93 TTGCTTGGAGGGTCTCTCGCGCCCTAGCGGCTACTGCTTGTCTGCTGGCTGGTGA 152
QY 51 IleValGlyHisIleGluLeuGlyGlyLysProAlaIle-ValProAspLysGluVal 70
Db 153 ATCGTGGTTCATATGAGTGGGGGCAAGCGGCACT-CGTTCCAGACAAGAGGTGT 211
QY 70 uTyrGlnGlnTyrAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGluGlnAl 90
Db 212 GTATCAACAGTACGATGAGTGGAGGAGTGTCTGCAAGCGGCCCATACATCGACAACG 271
QY 90 aGlnValIleAlaHisGlnPheLys 98
Db 272 TCAGGTAATAGCCACCACTTCAAG 296

RESULT 12

US-09-878-281-33
/ Sequence 33, Application US/09878281
/ Publication No. US20030032005A1
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: New sequences of hepatitis C virus
/ TYPE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
/ NUMBER OF SEQUENCES: 270
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/878,281
/ FILING DATE:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/362,455
/ FILING DATE:
/ INFORMATION FOR SEQ ID NO: 33:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 401 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ IMMEDIATE SOURCE:
/ CLONE: HD10-1-3
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 3..401
/ US-09-878-281-33

Alignment Scores:

Pred. No.: 8,72e-47 Length: 401
Score: 52.00 Matches: 87
Percent Similarity: 97.75% Conservative: 0
Best Local Similarity: 97.75% Mismatches: 1
Query Match: 39.10% Indels: 2
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-878-281-33 (1-401)

QY 11 ThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTrpVal 30
Db 33 ACAAATACATTATGGCATGTCAGCTGATCTGGAAGTAACCAACGACCTGGGTG 92
QY 31 LeuLeuGlyGlyValLeuAlaLeuAlaAlaTyrCysLeuSerValGlyCysValVal 50
Db 93 TTGCTTGGAGGGTCTCTCGCGCCCTAGCGGCTACTGCTTGTCTGCTGGCTGGTGA 152
QY 51 IleValGlyHisIleGluLeuGlyGlyLysProAlaIle-ValProAspLysGluVal 70
Db 153 ATCGTGGTTCATATGAGTGGGGGCAAGCGGCACT-CGTTCCAGACAAGAGGTGT 211
QY 70 uTyrGlnGlnTyrAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGluGlnAl 90
Db 212 GTATCAACAGTACGATGAGTGGAGGAGTGTCTGCAAGCGGCCCATACATCGACAACG 271
QY 90 aGlnValIleAlaHisGlnPheLys 98
Db 272 TCAGGTAATAGCCACCACTTCAAG 296

RESULT 13

US-10-396-964-16
/ Sequence 16, Application US/10396964
/ Publication No. US20030198946A1
/ GENERAL INFORMATION:
/ APPLICANT: Simmonds, Peter
/ APPLICANT: Chan, Shiu-Wan
/ APPLICANT: Yap, Peng L.
/ TITLE OF INVENTION: Hepatitis-C Virus Testing
/ NUMBER OF SEQUENCES: 53
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
/ STREET: 1211 East Morehead Street
/ CITY: Charlotte
/ STATE: No. US20030198946A1th Carolina
/ COUNTRY: United States
/ ZIP: 28234
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/10/396,964
/ FILING DATE: 23-MARCH-2003
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/08/244,116B
/ FILING DATE: 15-JUL-1994
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/GB92/02143
/ FILING DATE: 20-NOV-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Sibley, Kenneth D.
/ REGISTRATION NUMBER: 31,665
/ REFERENCE/DOCKET NUMBER: 1749-125
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 704-377-1561
/ TELEFAX: 704-334-2014
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:

```
; LENGTH: 367 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
; US-10-396-964-16

Alignment Scores:
Pred. No.: 1,64e-42 Length: 367
Score: 48.00 Matches: 83
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 1
Query Match: 36.09% Indels: 2
DB: 14 Gaps: 0

US-09-638-693-36 (1-133) x US-10-396-964-16 (1-367)
QY 15 MetAlaCysMetSerLalaSpLeuValThrThrSerThrTrpValLeuLeuGlyGly 34
Db 26 AUGGCAUGAUGCAGCUGAUCUGGAAGUAACACCACGACCCUGGUGUUGCUUGAGGR 85
QY 35 ValLeuAlaAlaLeuAlaLaTyrcysLeuSerValGlyCysValValleValGlyHis 54
Db 86 GUCCUCGCGGCCUACGCGCCUACUCUGUUGACGCGGUGUGUUGAUGUGGGYCAU 145
QY 55 IleGluLeuGlyGlyLysProAlaIle-ValProAspLysGluValLeuTyrcGlnGlnTy 74
Db 146 AUGAGCUGGGRGGCAAGCCVGCAMU-CGUCCAGACAGARGUGUGUUGAUCAACAUA 204
QY 74 rAspGluMetGluGluCysSerGlnAlaIaProTyrlleGluGlnAlaGlnValleAl 94
Db 205 CGAUGAGAGUGGAGGAGUGUCGACGCGCCCAUAUACGAACAGCUCARGUAGC 264
QY 94 aHisGlnPheLys 98
Db 265 CCACAGAUCAAG 277

RESULT 14
US-09-881-654-3
; Sequence 4, Application US/09881239
; Publication No. US20020192639A1
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: TANDESKE, Phillip
; APPLICANT: GEORGE-NASCIENTO, Carlos
; APPLICANT: COIT, Doris
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: HCV ANTIGEN/ANTIBODY COMBINATION ASSAY
; FILE REFERENCE: 2302-16073 / PPI6073.003
; CURRENT APPLICATION NUMBER: US/09/881,239
; CURRENT FILING DATE: 2001-06-14
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 4
; LENGTH: 2499
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 12
; NAME/KEY: CDS
; LOCATION: (1)..(2487)
; US-09-881-239-4

Alignment Scores:
Pred. No.: 3,33e-34 Length: 2499
Score: 41.00 Matches: 41
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0

; LENGTH: 367 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
; US-10-396-964-16

Alignment Scores:
Pred. No.: 1,64e-42 Length: 367
Score: 48.00 Matches: 83
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 1
Query Match: 36.09% Indels: 2
DB: 14 Gaps: 0

US-09-638-693-36 (1-133) x US-10-396-964-16 (1-367)
QY 15 MetAlaCysMetSerLalaSpLeuValThrThrSerThrTrpValLeuLeuGlyGly 34
Db 26 AUGGCAUGAUGCAGCUGAUCUGGAAGUAACACCACGACCCUGGUGUUGCUUGAGGR 85
QY 35 ValLeuAlaAlaLeuAlaLaTyrcysLeuSerValGlyCysValValleValGlyHis 54
Db 86 GUCCUCGCGGCCUACGCGCCUACUCUGUUGACGCGGUGUGUUGAUGUGGGYCAU 145
QY 55 IleGluLeuGlyGlyLysProAlaIle-ValProAspLysGluValLeuTyrcGlnGlnTy 74
Db 146 AUGAGCUGGGRGGCAAGCCVGCAMU-CGUCCAGACAGARGUGUGUUGAUCAACAUA 204
QY 74 rAspGluMetGluGluCysSerGlnAlaIaProTyrlleGluGlnAlaGlnValleAl 94
Db 205 CGAUGAGAGUGGAGGAGUGUCGACGCGCCCAUAUACGAACAGCUCARGUAGC 264
QY 94 aHisGlnPheLys 98
Db 265 CCACAGAUCAAG 277

RESULT 15
US-09-881-654-3
; Sequence 3, Application US/09881654
; Patent No. US2002014685A1
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: TANDESKE, Phillip
; APPLICANT: GEORGE-NASCIENTO, Carlos
; APPLICANT: COIT, Doris
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES
; FILE REFERENCE: 2302-17039 / PPI7039.002
; CURRENT APPLICATION NUMBER: US/09/881,654
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: 60/212,082
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/280,811
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/280,867
; PRIOR FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3
; LENGTH: 3297
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1
; NAME/KEY: CDS
; LOCATION: (1)..(3297)
; US-09-881-654-3

Alignment Scores:
Pred. No.: 4,29e-34 Length: 3297
Score: 41.00 Matches: 41
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 30.83% Indels: 0
DB: 9 Gaps: 0

US-09-638-693-36 (1-133) x US-09-881-654-3 (1-3297)
QY 58 GlyGlyLysProAlaIleValProAspLysGluValLeuTyrcGlnTyAspGluMet 77
Db 2242 GGGGCAAGCCGCGCAATGTTCCAGACAAGAGGTTGTATCAACAATACGATGAGATG 2301
QY 78 GluGluCysSerGlnAlaIaProTyrlleGluGlnAlaGlnValleAlaHisGlnPhe 97
Db 2302 GAAGAGTGCTCACAGCTGCCCATATATCGAACAGCTCAGTAATAGCTCACCAGTTC 2361
QY 98 Lys 98
Db 2362 AAG 2364
```

Search completed: February 27, 2004, 23:48:54
Job time : 255 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 25, 2004, 01:46:44 ; Search time 22 Seconds
(without alignments)
312.102 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEICLTHPTIKYIMACSA.....VIEPIVTNWKLEAFWHKH 133

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/prodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/prodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/prodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/prodata/2/iaa/PCTUS COMB.pep.*
6: /cgn2_6/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	572	81.8	128	1	US-08-244-116B-17
2	539	77.1	3012	3	US-08-811-566-2
3	539	77.1	3012	4	US-09-034-756-2
4	534	76.4	313	2	US-08-483-695-45
5	534	76.4	313	2	US-07-965-285-45
6	534	76.4	313	2	US-08-487-231-45
7	534	76.4	313	3	US-09-201-912-45
8	534	76.4	382	3	US-08-444-818-68
9	534	76.4	460	3	US-08-444-818-20
10	534	76.4	592	3	US-08-867-611-47
11	534	76.4	592	4	US-09-690-359-47
12	534	76.4	594	3	US-08-867-611-48
13	534	76.4	594	4	US-09-690-359-48
14	534	76.4	597	3	US-08-867-611-16
15	534	76.4	597	4	US-09-690-359-16
16	534	76.4	597	5	PCT-US92-06965A-21
17	534	76.4	599	3	US-08-867-611-18
18	534	76.4	599	4	US-09-690-359-18
19	534	76.4	599	5	PCT-US92-06965A-23
20	534	76.4	613	3	US-08-867-611-49
21	534	76.4	613	4	US-09-690-359-49
22	534	76.4	739	3	US-08-444-818-148
23	534	76.4	859	3	US-08-444-818-30
24	534	76.4	971	3	US-08-867-611-52
25	534	76.4	971	4	US-09-690-359-52
26	534	76.4	973	3	US-08-867-611-53
27	534	76.4	973	4	US-09-690-359-53

28 534 76.4 992 3 US-08-867-611-54 Sequence 54, Appl
29 534 76.4 992 4 US-09-690-359-54 Sequence 54, Appl
30 534 76.4 1021 1 US-07-910-760-12 Sequence 12, Appl
31 534 76.4 1021 1 US-08-440-519-12 Sequence 12, Appl
32 534 76.4 1021 4 US-08-440-549-12 Sequence 12, Appl
33 534 76.4 2261 3 US-08-444-818-66 Sequence 66, Appl
34 534 76.4 2436 3 US-08-444-818-75 Sequence 75, Appl
35 534 76.4 2772 3 US-08-444-818-89 Sequence 89, Appl
36 534 76.4 2894 2 US-08-466-975A-23 Sequence 23, Appl
37 534 76.4 2894 2 US-08-391-671A-23 Sequence 23, Appl
38 534 76.4 2894 3 US-08-467-902A-23 Sequence 23, Appl
39 534 76.4 2894 3 US-09-275-265-23 Sequence 23, Appl
40 534 76.4 2894 4 US-09-941-611-23 Sequence 23, Appl
41 534 76.4 2955 2 US-08-443-260-3 Sequence 3, Appl
42 534 76.4 2955 3 US-08-442-805A-3 Sequence 3, Appl
43 534 76.4 2955 3 US-08-443-900A-3 Sequence 3, Appl
44 534 76.4 2955 3 US-08-444-818-124 Sequence 124, App
45 534 76.4 2955 3 US-08-249-843-3 Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-244-116B-17
; Sequence 17, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; APPLICANT: Yap, Peng L
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 5763159th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: Yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-08-244-116B-17

Query Match 81.8%; Score 572; DB 1; Length 128;


```
;
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/483,695
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE: 18-MAR-1993
; APPLICATION NUMBER: FR 91 06 882
; FILING DATE: 06-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05286-0001-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 313 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-483-695-45

Query Match 76.4%; Score 534; DB 2; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHTPKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 178 ONEITLTHPTVKYIMTSCMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGRVLSGK 237

QY 61 PAIVDPKEVLYQYDMEECSCQAAPYIEQAQVIAHOFKGVGLLQRTAQQAIVPIVT 120
Db 238 PALIPDREVLVYREFDEMEECSCQHLPIYIEQGMMLAEQFKALGLLQRTASRQAEVIAPAVE 297

QY 121 TNWQKLEAFWKKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 5
US-07-965-285-45
; Sequence 45, Application US/07965285
; Patent No. 5879904
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kremsdorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/483,695
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE: 18-MAR-1993
; APPLICATION NUMBER: FR 91 06 882
; FILING DATE: 06-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05286-0001-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 313 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-483-695-45

Query Match 76.4%; Score 534; DB 2; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHTPKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 178 ONEITLTHPTVKYIMTSCMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGRVLSGK 237

QY 61 PAIVDPKEVLYQYDMEECSCQAAPYIEQAQVIAHOFKGVGLLQRTAQQAIVPIVT 120
Db 238 PALIPDREVLVYREFDEMEECSCQHLPIYIEQGMMLAEQFKALGLLQRTASRQAEVIAPAVE 297

QY 121 TNWQKLEAFWKKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 6
US-08-487-231-45
; Sequence 45, Application US/08487231
; Patent No. 5919454
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kremsdorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,231
; FILING DATE: 07-JUNE-1995
```

```
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA: US 07/965,285
/ FILING DATE: 18-MAR-1993
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: FR 91 06 882
/ FILING DATE: 06-JUN-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Meyers, Kenneth J.
/ REGISTRATION NUMBER: 25,146
/ REFERENCE/DOCKET NUMBER: 05286-0001-02000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-408-4000
/ INFORMATION FOR SEQ ID NO: 45:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 313 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ US-08-487-231-45

Query Match 76.4%; Score 534; DB 2; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 178 ONEITLTHPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGRVLSGK 237

QY 61 PAIVDPKEVLYQYDEMEECSSQAAPYIEQAQVIAHOFKGVGLGLQORATQQQAVIEPIVT 120
Db 238 PALIPDREVLYREFDEMEECSSQHLPIYIEQGMMLAEQFKALGLLQTSRQAEVIAPAVE 297

QY 121 TNWQKLEAFWHKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 7
US-09-201-912-45
/ Sequence 45, Application US/09201912
/ Patent No. 6210962
/ GENERAL INFORMATION:
/ APPLICANT: Brechot, Christian
/ APPLICANT: Krensdorf, Dina
/ APPLICANT: Porchon, Colette
/ TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
/ TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
/ TITLE OF INVENTION: Applications
/ NUMBER OF SEQUENCES: 46
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
/ ADDRESSEE: Dunner
/ STREET: 1300 I Street, N.W.
/ CITY: Washington
/ STATE: DC
/ COUNTRY: USA
/ ZIP: 20005-3315
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/201.912
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/965,285
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
```

```
/ NAME: Meyers, Kenneth J.
/ REGISTRATION NUMBER: 25,146
/ REFERENCE/DOCKET NUMBER: 05286-0001-00000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-408-4000
/ TELEFAX: 202-408-4400
/ INFORMATION FOR SEQ ID NO: 45:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 313 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ US-09-201-912-45

Query Match 76.4%; Score 534; DB 3; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 178 ONEITLTHPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGRVLSGK 237

QY 61 PAIVDPKEVLYQYDEMEECSSQAAPYIEQAQVIAHOFKGVGLGLQORATQQQAVIEPIVT 120
Db 238 PALIPDREVLYREFDEMEECSSQHLPIYIEQGMMLAEQFKALGLLQTSRQAEVIAPAVE 297

QY 121 TNWQKLEAFWHKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 8
US-08-444-818-68
/ Sequence 68, Application US/08444818
/ Patent No. 6150087
/ GENERAL INFORMATION:
/ APPLICANT: Chien, David Y.
/ APPLICANT: Rutter, William J.
/ TITLE OF INVENTION: NANEV Diagnostics and Vaccines
/ NUMBER OF SEQUENCES: 777
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Chiron Corporation
/ STREET: 4560 Horton Street
/ CITY: Emeryville
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94608-2916
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/444,818
/ FILING DATE:
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/08/403,590
/ FILING DATE: 14-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Harbin, Alisa A.
/ REGISTRATION NUMBER: 33,895
/ REFERENCE/DOCKET NUMBER: 0110.002
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (508)359-3876
/ TELEFAX: (508)359-3885
/ INFORMATION FOR SEQ ID NO: 68:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 382 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-444-818-68
```


Query Match 76.4%; Score 534; DB 3; Length 382;
Best Local Similarity 74.4%; Pred. No. 4.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 QNEICLTHPTIKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 78 ONEITLTHPTVKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSGCVVIVGRVLSGK 137

QY 61 PAIVDPKEVLYQYDEMECSQAAPYIEQAQVIAHOFKGVGLGLQRTQQQAVIEPIVT 120
Db 138 PAIIPDREVLRYREFDEMECSQHLPIYIEQGMMLAEQFKALGLLQTSRQAEVIAPAVQ 197

QY 121 TNWQKLEAPWHKH 133
Db 198 TNWQKLETFWAKH 210

RESULT 9
US-08-444-818-20
; Sequence 20, Application US/08444818
; Patent No. 6150087
; GENERAL INFORMATION:
; APPLICANT: Chien, David Y.
; APPLICANT: Rutter, William J.
; TITLE OF INVENTION: NANBV Diagnostics and Vaccines
; NUMBER OF SEQUENCES: 777
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: CA
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,818
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,590
; FILING DATE: 14-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Harbin, Alisa A.
; REGISTRATION NUMBER: 33,895
; REFERENCE/DOCKET NUMBER: 0110.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)359-3876
; TELEFAX: (508)359-3885
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 460 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-444-818-20

Query Match 76.4%; Score 534; DB 3; Length 460;
Best Local Similarity 74.4%; Pred. No. 5.5e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 QNEICLTHPTIKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 162 QNEITLTHPTVKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSGCVVIVGRVLSGK 221

QY 61 PAIVDPKEVLYQYDEMECSQAAPYIEQAQVIAHOFKGVGLGLQRTQQQAVIEPIVT 120
Db 222 PAIIPDREVLRYREFDEMECSQHLPIYIEQGMMLAEQFKALGLLQTSRQAEVIAPAVQ 281

QY 121 TNWQKLEAPWHKH 133
Db 282 TNWQKLETFWAKH 294

RESULT 10
US-08-867-611-47
; Sequence 47, Application US/08867611
; Patent No. 6172189
; GENERAL INFORMATION:
; APPLICANT: DEVARE, SUSHIL G
; APPLICANT: DESAI, SURESH M
; APPLICANT: CASEY, JAMES M
; APPLICANT: DAILEY, STEPHEN H
; APPLICANT: DAWSON, GEORGE J
; APPLICANT: GUTIERREZ, ROBIN A
; APPLICANT: LESNIEWSKI, RICHARD R
; APPLICANT: STEWART, JAMES L
; APPLICANT: RUPPRECHT, KEVIN R
; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT
; TITLE OF INVENTION: ANTIGENS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ABBOTT LABORATORIES
; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
; CITY: ABBOTT PARK
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,611
; FILING DATE: 02-JUN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,757
; FILING DATE:
; APPLICATION NUMBER: US/08/179,896
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/572,822
; FILING DATE: 24-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/614,069
; FILING DATE: 07-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/748,561
; FILING DATE: 21-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/748,565
; FILING DATE: 21-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/748,566
; FILING DATE: 21-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: FOREMSKI, PRISCILLA E
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 4834.US.P6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-6365
; TELEFAX: 708-937-9556
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 592 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-867-611-47


```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/748,561
; FILING DATE: 21-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/748,565
; FILING DATE: 21-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/748,566
; FILING DATE: 21-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: FOREMSKI, PRISCILLA E
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 4834.US.P6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-6365
; TELEFAX: 708-937-9556
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 594 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-867-611-48

Query Match 76.4%; Score 534; DB 3; Length 594;
Best Local Similarity 74.4%; Pred. No. 7.7e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHPTIKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 290 ONEITLTHPTVKYIMTCSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIVGRVLSCK 349

QY 61 PAIVDPKEVLYQOYDEMEECSQAAPYIEQAQVIAHOFKGVLGGLLQATCQQAQVIEPIVT 120
Db 350 PAIIPDREVLVYREFDEMEECQHLPYIEQGMMLAEQFKQALGLLQATASRQAEVIAPVQ 409

QY 121 TNWQKLEAFWKKH 133
Db 410 TNWQKLETFWAKH 422

RESULT 13
US-09-690-359-48
; Sequence 48, Application US/09690359
; Patent No. 6593083
; GENERAL INFORMATION:
; APPLICANT: DEVARE, SUSHIL G
; CASEY, JAMES M
; DAILEY, STEPHEN H
; DAWSON, GEORGE J
; GUTIERREZ, ROBIN A
; LESNIEWSKI, RICHARD R
; RUPPRECHT, KEVIN R
; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ABBOTT LABORATORIES
; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
; CITY: ABBOTT PARK
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/690,359
```

```

; FILING DATE: 17-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/867,611
; FILING DATE: 02-JUN-1997
; APPLICATION NUMBER: US/08/646,757
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US/08/179,896
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 07/572,822
; FILING DATE: 24-AUG-1990
; APPLICATION NUMBER: US 07/614,069
; FILING DATE: 07-NOV-1990
; APPLICATION NUMBER: US 07/748,561
; FILING DATE: 21-AUG-1991
; APPLICATION NUMBER: US 07/748,565
; APPLICATION NUMBER: US 07/748,566
; FILING DATE: 21-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: FOREMSKI, PRISCILLA E
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 4834.US.P6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-6365
; TELEFAX: 708-937-9556
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 594 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 48:
US-09-690-359-48

Query Match 76.4%; Score 534; DB 4; Length 594;
Best Local Similarity 74.4%; Pred. No. 7.7e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHPTIKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 290 ONEITLTHPTVKYIMTCSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIVGRVLSCK 349

QY 61 PAIVDPKEVLYQOYDEMEECSQAAPYIEQAQVIAHOFKGVLGGLLQATCQQAQVIEPIVT 120
Db 350 PAIIPDREVLVYREFDEMEECQHLPYIEQGMMLAEQFKQALGLLQATASRQAEVIAPVQ 409

QY 121 TNWQKLEAFWKKH 133
Db 410 TNWQKLETFWAKH 422

RESULT 14
US-08-867-611-16
; Sequence 16, Application US/08867611
; Patent No. 6172189
; GENERAL INFORMATION:
; APPLICANT: DEVARE, SUSHIL G
; APPLICANT: DESAI, SURESH M
; APPLICANT: CASEY, JAMES M
; APPLICANT: DAILEY, STEPHEN H
; APPLICANT: DAWSON, GEORGE J
; APPLICANT: GUTIERREZ, ROBIN A
; APPLICANT: LESNIEWSKI, RICHARD R
; APPLICANT: STEWART, JAMES L
; APPLICANT: RUPPRECHT, KEVIN R
; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT
; TITLE OF INVENTION: ANTIGENS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ABBOTT LABORATORIES
; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
```

CITY: ABBOTT PARK
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/867,611
FILING DATE: 02-JUN-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/646,757
FILING DATE: US/08/646,757
APPLICATION NUMBER: US/08/179,896
FILING DATE:
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/572,822
FILING DATE: 24-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/614,069
FILING DATE: 07-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/748,561
FILING DATE: 21-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/748,565
FILING DATE: 21-AUG-1991
APPLICATION NUMBER: US/07/748,566
FILING DATE: 21-AUG-1991
NAME: POREMSKI, PRISCILLA E
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 4834. US.P6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-937-6365
TELEFAX: 708-937-9556
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 597 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-867-611-16

Query Match 76.4%; Score 534; DB 3; Length 597;
Best Local Similarity 74.4%; Pred. No. 7.8e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIGHIELGK 60
DB 288 ONEITLTHPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIGRVLSGK 347
QY 61 PAIVDPKVELVYQQYDEMEECQAAPYIEQAQVIAHQFGKVLGLLQRTATQQQAVIEPIVT 120
DB 348 PAIIPDREVLVYREFDEMEECQHLPIYIEQGMMLAEQFKQKALGLLQRTASRQAEVIAPVQ 407
QY 121 TNWQKLEAFWKKH 133
DB 408 TNWQKLETFWAKH 420

RESULT 15

US-09-690-359-16
Sequence 16, Application US/09690359
Patent No. 6593083
GENERAL INFORMATION:
APPLICANT: DEVARE, SUSHIL G
DESAI, SURESH M
CASEY, JAMES M

DAILEY, STEPHEN H
DAWSON, GEORGE J
GUTIERREZ, ROBIN A
LESNIEWSKI, RICHARD R
STEWART, JAMES L
RUPPRECHT, KEVIN R
TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT LABORATORIES
STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
CITY: ABBOTT PARK
STATE: IL
COUNTRY: USA
ZIP: 60064-3500

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/690,359
FILING DATE: 17-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/867,611
FILING DATE: 02-JUN-1997
APPLICATION NUMBER: US/08/646,757
FILING DATE: <Unknown>
APPLICATION NUMBER: US/08/179,896
FILING DATE: <Unknown>
APPLICATION NUMBER: US/07/572,822
FILING DATE: 24-AUG-1990
APPLICATION NUMBER: US/07/614,069
FILING DATE: 07-NOV-1990
APPLICATION NUMBER: US/07/748,561
FILING DATE: 21-AUG-1991
APPLICATION NUMBER: US/07/748,565
FILING DATE: 21-AUG-1991
APPLICATION NUMBER: US/07/748,566
FILING DATE: 21-AUG-1991

NAME: POREMSKI, PRISCILLA E
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 4834. US.P6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-937-6365
TELEFAX: 708-937-9556
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 597 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-690-359-16

Query Match 76.4%; Score 534; DB 4; Length 597;
Best Local Similarity 74.4%; Pred. No. 7.8e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIGHIELGK 60
DB 288 ONEITLTHPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIGRVLSGK 347
QY 61 PAIVDPKVELVYQQYDEMEECQAAPYIEQAQVIAHQFGKVLGLLQRTATQQQAVIEPIVT 120
DB 348 PAIIPDREVLVYREFDEMEECQHLPIYIEQGMMLAEQFKQKALGLLQRTASRQAEVIAPVQ 407
QY 121 TNWQKLEAFWKKH 133
DB 408 TNWQKLETFWAKH 420

Search completed: February 25, 2004, 01:52:49
Job time : 23 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.
OM protein - protein search, using sw model
Run on: February 25, 2004, 01:48:29 ; Search time 33 Seconds
(without alignments)
851.012 Million cell updates/sec

Title: US-09-638-693-36
Perfect score: 699
Sequence: 1 QNEICLTHPIKYIMACMSA.....VIEPIVITNWQLEAFWHKH 133

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 809742 seqs, 211153259 residues
Total number of hits satisfying chosen parameters: 809742

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pcp:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pcp:*
3: /cgn2_6/ptodata/2/pubpaa/US05_NEW_PUB.pcp:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pcp:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pcp:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pcp:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pcp:*
8: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pcp:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pcp:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pcp:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pcp:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pcp:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pcp:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pcp:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pcp:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pcp:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pcp:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	699	100.0	133	10	US-09-899-046-36
2	699	100.0	133	10	US-09-878-281-36
3	691	98.9	133	10	US-09-899-046-38
4	691	98.9	133	10	US-09-899-046-40
5	691	98.9	133	10	US-09-878-281-38
6	691	98.9	133	10	US-09-878-281-40
7	691	98.9	209	10	US-09-899-046-223
8	691	98.9	209	10	US-09-878-281-223
9	672	96.1	133	10	US-09-899-046-32
10	672	96.1	133	10	US-09-899-046-34
11	672	96.1	133	10	US-09-878-281-32
12	672	96.1	133	10	US-09-878-281-34
13	572	81.8	128	14	US-09-396-964-17
14	539	77.1	3011	9	US-09-742-659-4
15	539	77.1	3011	10	US-09-891-894-3

16	539	77.1	3011	14	US-10-184-150-3	Sequence 3, Appli
17	539	77.1	3011	15	US-10-328-997-3	Sequence 3, Appli
18	539	77.1	3012	9	US-09-238-076-2	Sequence 2, Appli
19	539	77.1	3012	10	US-09-995-937-2	Sequence 2, Appli
20	539	77.1	3012	10	US-09-917-563-2	Sequence 2, Appli
21	534	76.4	2894	9	US-09-941-611-23	Sequence 23, Appl
22	534	76.4	2894	14	US-10-044-995-23	Sequence 23, Appl
23	534	76.4	3011	9	US-09-916-359-2	Sequence 2, Appli
24	534	76.4	3011	9	US-09-238-076-20	Sequence 20, Appl
25	534	76.4	3011	9	US-09-952-572-9	Sequence 9, Appli
26	534	76.4	3011	9	US-09-929-955-1	Sequence 1, Appli
27	534	76.4	3011	9	US-09-747-419-20	Sequence 20, Appl
28	534	76.4	3011	10	US-09-995-937-20	Sequence 20, Appl
29	534	76.4	3011	10	US-09-917-563-20	Sequence 20, Appl
30	534	76.4	3011	13	US-10-104-966-1	Sequence 1, Appli
31	534	76.4	3011	14	US-10-259-275-20	Sequence 20, Appl
32	534	76.4	3011	14	US-10-232-643-6	Sequence 6, Appli
33	492	70.4	1692	10	US-09-919-901-4	Sequence 4, Appli
34	492	70.4	1692	10	US-09-919-901-11	Sequence 11, Appl
35	492	70.4	1692	10	US-09-919-901-18	Sequence 18, Appl
36	492	70.4	1692	14	US-10-191-966-4	Sequence 4, Appli
37	492	70.4	1692	14	US-10-191-966-11	Sequence 11, Appl
38	492	70.4	1692	14	US-10-191-966-18	Sequence 18, Appl
39	492	70.4	2201	13	US-10-085-476-2	Sequence 2, Appli
40	492	70.4	2307	10	US-09-919-901-2	Sequence 2, Appli
41	492	70.4	2307	10	US-09-919-901-9	Sequence 9, Appli
42	492	70.4	2307	10	US-09-919-901-16	Sequence 16, Appl
43	492	70.4	2307	14	US-10-191-966-2	Sequence 2, Appli
44	492	70.4	2307	14	US-10-191-966-9	Sequence 9, Appli
45	492	70.4	2307	14	US-10-191-966-16	Sequence 16, Appl

ALIGNMENTS

RESULT 1
US-09-899-046-36
; Sequence 36, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-36

Query Match 100.0%; Score 699; DB 10; Length 133;
Best Local Similarity 100.0%; Pred. No. 4.4e-72;
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 QNEICLTHPIKYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVWVGHIEGK 60
DB 1 QNEICLTHPIKYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVWVGHIEGK 60
QY 61 PAIVPDKVLYQQYDEMEECSSAARYIEQAOVIAHQFKVGLGLQRAVTEPTVT 120

Db 61 PAIVDPKEVLYQQYDEMEECSCQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120
QY 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 2

US-09-878-281-36
; Sequence 36, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; PRIOR APPLICATION NUMBER: US/09/878,281
; APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-36

Query Match 100.0%; Score 699; DB 10; Length 133;
Best Local Similarity 100.0%; Pred. No. 4.4e-72;
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ONEICLTHPTIKYIMACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 1 ONEICLTHPTIKYIMACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
QY 61 PAIVDPKEVLYQQYDEMEECSCQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120
Db 61 PAIVDPKEVLYQQYDEMEECSCQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120
QY 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 3

US-09-899-046-38
; Sequence 38, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; PRIOR APPLICATION NUMBER: US/09/899,046
; APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 38:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-38

Query Match 98.9%; Score 691; DB 10; Length 133;
Best Local Similarity 99.2%; Pred. No. 3.6e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ONEICLTHPTIKYIMACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 1 ONEICLTHPTIKYIMACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
QY 61 PAIVDPKEVLYQQYDEMEECSCQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120
Db 61 PAIVDPKEVLYQQYDEMEECSCQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120
QY 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 4

US-09-899-046-40
; Sequence 40, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; PRIOR APPLICATION NUMBER: US/09/899,046
; APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-40

Query Match 98.9%; Score 691; DB 10; Length 133;
Best Local Similarity 99.2%; Pred. No. 3.6e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ONEICLTHPTIKYIMACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 1 ONEICLTHPTIKYIMACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
QY 61 PAIVDPKEVLYQQYDEMEECSCQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120
Db 61 PAIVDPKEVLYQQYDEMEECSCQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120
QY 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 5

US-09-878-281-38
; Sequence 38, Application US/09878281
; Publication No. US20030032005A1

```

; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-878-281-38

Query Match 98.9%; Score 691; DB 10; Length 133;
Best Local Similarity 99.2%; Pred. No. 3.6e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 1 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
QY 61 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 120
Db 61 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 120
QY 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 6
US-09-878-281-40
; Sequence 40, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-878-281-40

Query Match 98.9%; Score 691; DB 10; Length 133;
Best Local Similarity 99.2%; Pred. No. 3.6e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 1 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
QY 61 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 120
Db 61 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 120
QY 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 7
US-09-899-046-223
; Sequence 223, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 223:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 209 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-899-046-223

Query Match 98.9%; Score 691; DB 10; Length 209;
Best Local Similarity 99.2%; Pred. No. 6.5e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 77 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 136
QY 61 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 120
Db 137 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 196
QY 121 TNWQKLEAFWHKH 133
Db 197 TNWQKLEAFWHKH 209

RESULT 8
US-09-878-281-223
; Sequence 223, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-878-281-40

Query Match 98.9%; Score 691; DB 10; Length 133;
Best Local Similarity 99.2%; Pred. No. 3.6e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```

QY 1 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 1 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
QY 61 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 120
Db 61 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 120
QY 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 7
US-09-899-046-223
; Sequence 223, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 223:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 209 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-899-046-223

Query Match 98.9%; Score 691; DB 10; Length 209;
Best Local Similarity 99.2%; Pred. No. 6.5e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 77 QNEICLTHTPITKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 136
QY 61 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 120
Db 137 PAIVDPKEVLQOQYDEMEECQAAPYIEQAQVIAHOFKGVKVLGLLQRTAQQAIVIEPIVT 196
QY 121 TNWQKLEAFWHKH 133
Db 197 TNWQKLEAFWHKH 209

RESULT 8
US-09-878-281-223
; Sequence 223, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-878-281-40

Query Match 98.9%; Score 691; DB 10; Length 133;
Best Local Similarity 99.2%; Pred. No. 3.6e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```


/ APPLICATION NUMBER: US/09/878,281
/ FILING DATE:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/362,455
/ FILING DATE:
/ INFORMATION FOR SEQ ID NO: 223:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 209 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-09-878-281-223

Query Match 98.9%; Score 691; DB 10; Length 209;
Best Local Similarity 99.2%; Pred. No. 6.5e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNEICLTHPTIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60

Db 77 QNEICLTHPTIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 136

QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120

Db 137 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 196

QY 121 TNWQKLEAFWHKH 133

Db 197 TNWQKLEAFWHKH 209

RESULT 9

US-09-899-046-32

/ Sequence 32, Application US/09899046

/ Publication No. US2003008274A1

/ GENERAL INFORMATION:

/ APPLICANT:

/ TITLE OF INVENTION: New sequences of hepatitis C virus

/ TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.

/ NUMBER OF SEQUENCES: 270

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: Floppy disk

/ COMPUTER: IBM PC compatible

/ OPERATING SYSTEM: PC-DOS/MS-DOS

/ SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/09/899,046

/ FILING DATE:

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 08/362,455

/ FILING DATE:

/ INFORMATION FOR SEQ ID NO: 32:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 133 amino acids

/ TYPE: amino acid

/ TOPOLOGY: linear

/ MOLECULE TYPE: protein

US-09-899-046-32

Query Match

Best Local Similarity 96.1%; Score 672; DB 10; Length 133;

Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNEICLTHPTIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60

Db 1 QNEICLTHPTIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60

QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120

Db 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120

QY 121 TNWQKLEAFWHKH 133

Db 121 SNWQKLETFWHKH 133

RESULT 10

US-09-899-046-34

/ Sequence 34, Application US/09899046

/ Publication No. US2003008274A1

/ GENERAL INFORMATION:

/ APPLICANT:

/ TITLE OF INVENTION: New sequences of hepatitis C virus

/ TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.

/ NUMBER OF SEQUENCES: 270

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: Floppy disk

/ COMPUTER: IBM PC compatible

/ OPERATING SYSTEM: PC-DOS/MS-DOS

/ SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/09/899,046

/ FILING DATE:

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 08/362,455

/ FILING DATE:

/ INFORMATION FOR SEQ ID NO: 34:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 133 amino acids

/ TYPE: amino acid

/ TOPOLOGY: linear

/ MOLECULE TYPE: protein

US-09-899-046-34

Query Match

Best Local Similarity 96.1%; Score 672; DB 10; Length 133;

Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNEICLTHPTIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60

Db 1 QNEICLTHPTIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60

QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120

Db 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120

QY 121 TNWQKLEAFWHKH 133

Db 121 SNWQKLETFWHKH 133

RESULT 11

US-09-878-281-32

/ Sequence 32, Application US/09878281

/ Publication No. US20030032005A1

/ GENERAL INFORMATION:

/ APPLICANT:

/ TITLE OF INVENTION: New sequences of hepatitis C virus

/ TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.

/ NUMBER OF SEQUENCES: 270

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: Floppy disk

/ COMPUTER: IBM PC compatible

/ OPERATING SYSTEM: PC-DOS/MS-DOS

/ SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/09/878,281

/ FILING DATE:

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 08/362,455

/ FILING DATE:

/ INFORMATION FOR SEQ ID NO: 32:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 133 amino acids

/ TYPE: amino acid

/ TOPOLOGY: linear

/ MOLECULE TYPE: protein

US-09-878-281-32

Query Match.	96.1%;	Score 672;	DB 10;	Length 133;
Best Local Similarity	93.2%;	Pred. No. 5.4e-69;		
Matches 124;	Conservative 6;	Mismatches 3;	Indels 0;	Gaps 0;
Qy	1	QNEICLTHPTKTYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVVTVGHIELGK	60	
Db	1	QNEICLTHPTKTYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVVTVGHIELGK	60	
Qy	61	PAIVPDKVLYQQYDEMEECSQAAPYIEQAQVIAHQFKGVLGLLQRTQQQAVIEPTVT	120	
Db	61	PAIVPDKVLYQQYDEMEECSQAAPYIEQAQVIAHQFKGVLGLLQRTQQQAVIEPTVT	120	
Qy	121	TNQKLEAFWHKH	133	
Db	121	TNQKLETFWHKH	133	

RESULT 12

```

RES001 12
US-09-878-281-34
; Sequence 34, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-34

```

Query Match	96.1%	Score 672;	DB 10;	Length 133;
Best Local Similarity	93.2%;	Pred. No. 5.4e-69;		
Matches 124;	Conservative 6;	Mismatches 3;	Indels 0;	Gaps 0;

QY	1	QNEICLTHPTKTYIMACMSADLEVT	TTSTWLLGGVLAALAAAYC	LSVGC	VIVGH	IELG	GK 60
Db	1	QNEICLTHPTKTYIMACMSADLEVT	TTSTWLLGGVLAALAAAYC	LSVGC	VIVGH	IELG	GK 60
QY	61	PAIVPDKEVLYQQYDEMEECSQAAPY	TEQAQVIAHQFKGVLGL	QRATQQA	VEPI	VT 120	
Db	61	PAIVPDKEVLYQQYDEMEECSQAAPY	TEQAQVIAHQFKGVLGL	QRATQQA	VEPI	VT 120	
QY	121	TNWKLEAFWHKH	133				
Db	121	TNWKLEAFWHKH	133				

RESULT 13

```

US-10-396-964-17
; Sequence 17, Application US/10396964
; Publication No. US20030198946A1
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing

```

NUMBER OF SEQUENCES: 53
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
 STREET: 1211 East Morehead Street
 CITY: Charlotte
 STATE: NO. US20030198946A1th Carolina
 COUNTRY: United States
 ZIP: 28234
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: PatentIn Release #1.0. Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/396,964
 FILING DATE: 23-MARCH-2003
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US/08/244,116B
 FILING DATE: 15-JUL-1994
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB92/02143
 FILING DATE: 20-NOV-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Sibley, Kenneth D.
 REGISTRATION NUMBER: 31,665
 REFERENCE/DOCKET NUMBER: 1749-125
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 704-377-1561
 TELEFAX: 704-334-2014
 INFORMATION FOR SEQ ID NO: 17:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 128 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 HYPOTHETICAL: Yes
 FRAGMENT TYPE: Internal
 ORIGINAL SOURCE:
 ORGANISM: Hepatitis-C virus
 US-10-396-964-17

```

Query Match      81.8%;      Score 572;  DB 14;      Length 128;
Best Local Similarity 94.9%;  Pred. No. 1.5e-57;
Matches 111;  Conservative 0;  Mismatches 6;  Indels 0;  Gaps 0;

Qy      8  HPTKTYMACMSADLEVTTTWLLGCVLAALAAAYCCLSVGCVVIVGHIELGGKPAIVPDK 67
      |||
Db      2  HPXKKYMACMSADLEVTTTWLLGCVLAALAAAYCCLSVGCVVIVGHIELGGKPAIVPDK 61
      |||

Qy      68  EVLYQQYDEMEBCSQAAPYIEQQAQVIAHQPKGVLLGLQRATQQQAVIEPIVTNNQ 124
      |||
Db      62  EVLYQQYDEMEBCSQAAPYIEQQAQVIAHQPKGVLLGLQRATQQQAVIEPIVTNNQ 118
      |||

RESULT 14
US-09-742-659-4
; Sequence 4, Application US/09742659
; Patent No. US20010034019A1
; GENERAL INFORMATION:
; APPLICANT: Hong, Zhi
; APPLICANT: Butkiewicz, Nancy J.
; APPLICANT: Zhong, Weidong
; APPLICANT: Ingravallo, Paul
; APPLICANT: Wright-Minogue, Jacquelyn
; APPLICANT: Lau, Johnson Y.
; APPLICANT: Lemon, Stanley M.
; TITLE OF INVENTION: Chimeric HCV/GBV-B viruses
; FILE REFERENCE: ID01116
; CURRENT APPLICATION NUMBER: US/09/742,659
; CURRENT FILING DATE: 2000-12-21

```

; PRIOR APPLICATION NUMBER: US 60/171,469
; PRIOR FILING DATE: 1999-12-22
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 3011
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-09-742-659-4

Query Match 77.1%; Score 539; DB 9; Length 3011;
Best Local Similarity 75.9%; Pred. No. 5.5e-52;
Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;
QY 1 ONEICLTHTPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIIVGHIELGSK 60
Db 1632 QNEVLTHTPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIIVGRIVLSGK 1691
QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFGKVLGGLLQRTQQQAVIEPIVT 120
Db 1692 PAIIPDREVLVYQFDEMEECSEHLPYIEQGMMLAEQFKQKALGGLLQRTASRQAEVITPAVQ 1751
QY 121 TNWQKLEAFWKKH 133
Db 1752 TNWQKLEVFVAKH 1764

RESULT 15
US-09-891-894-3
; Sequence 3, Application US/09891894
; Publication NO. US20030013081A1
; GENERAL INFORMATION:
; APPLICANT: Olson, William
; APPLICANT: Maddon, Paul
; TITLE OF INVENTION: USES OF DC-SIGN AND DC-SIGNR FOR INHIBITING HEPATITIS C VIRUS INF
; FILE REFERENCE: 2048/64896/JPW/SHS
; CURRENT APPLICATION NUMBER: US/09/891,894
; CURRENT FILING DATE: 2001-06-26
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 3011
; TYPE: PRT
; ORGANISM: hepatitis c virus
US-09-891-894-3

Query Match 77.1%; Score 539; DB 10; Length 3011;
Best Local Similarity 75.9%; Pred. No. 5.5e-52;
Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;
QY 1 ONEICLTHTPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIIVGHIELGSK 60
Db 1632 QNEVLTHTPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIIVGRIVLSGK 1691
QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFGKVLGGLLQRTQQQAVIEPIVT 120
Db 1692 PAIIPDREVLVYQFDEMEECSEHLPYIEQGMMLAEQFKQKALGGLLQRTASRQAEVITPAVQ 1751
QY 121 TNWQKLEAFWKKH 133
Db 1752 TNWQKLEVFVAKH 1764

Search completed: February 25, 2004, 01:53:58
Job time : 34 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: February 27, 2004, 21:45:32 ; Search time 64 Seconds
(without alignments)
1153.257 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEICLTHPIKYMCMASA.....VIEPIVTNMQKLEAFWHKH 133

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO_spool/US09638693/runat_24022004_135619_6468/app_query.fasta_1.327
-DB=Issued_Patents_NA -QEXT=fastcap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09638693 @CGN 1.1.44 @runat_24022004_135619_6468 -NCPU=6 -ICPU=3
-NO_MMAP -LARGQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*

2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*

3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*

4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*

5: /cgn2_6/ptodata/2/ina/PTCUS.COMB.seq:*

6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	572	81.8	367	1	US-08-244-116B-16
2	539	77.1	9646	3	US-08-811-566-1
3	539	77.1	9646	4	US-09-034-756-1
4	539	77.1	12980	3	US-08-811-566-5
5	539	77.1	12980	4	US-09-034-756-5
6	534	76.4	943	2	US-08-483-695-43
7	534	76.4	943	2	US-07-965-285-43
8	534	76.4	943	2	US-08-487-231-43
9	534	76.4	943	3	US-09-201-912-43
10	534	76.4	1310	3	US-08-444-818-67
11	534	76.4	1382	3	US-08-444-818-19
12	534	76.4	1414	3	US-08-867-611-51

13	534	76.4	1414	4	US-09-690-359-51	Sequence 51, Appl
14	534	76.4	1420	3	US-08-867-611-57	Sequence 57, Appl
15	534	76.4	1420	3	US-09-690-359-57	Sequence 57, Appl
16	534	76.4	1791	3	US-08-867-611-15	Sequence 15, Appl
17	534	76.4	1791	4	US-09-690-359-15	Sequence 15, Appl
18	534	76.4	1791	5	PCT-US92-06965A-20	Sequence 20, Appl
19	534	76.4	1797	3	US-08-867-611-17	Sequence 17, Appl
20	534	76.4	1797	4	US-09-690-359-17	Sequence 17, Appl
21	534	76.4	1797	5	PCT-US92-06965A-22	Sequence 22, Appl
22	534	76.4	2219	3	US-08-444-818-147	Sequence 147, App
23	534	76.4	2259	3	US-08-444-818-29	Sequence 29, Appl
24	534	76.4	3075	1	US-07-910-760-11	Sequence 11, Appl
25	534	76.4	3075	1	US-08-440-519-11	Sequence 11, Appl
26	534	76.4	3075	4	US-08-440-519-11	Sequence 11, Appl
27	534	76.4	6785	3	US-08-444-818-65	Sequence 65, Appl
28	534	76.4	7310	3	US-08-444-818-74	Sequence 74, Appl
29	534	76.4	8316	3	US-08-444-818-88	Sequence 88, Appl
30	534	76.4	8987	3	US-08-444-818-137	Sequence 137, App
31	534	76.4	9185	3	US-08-444-818-122	Sequence 122, App
32	534	76.4	9185	3	US-08-444-818-123	Sequence 123, App
33	534	76.4	9379	3	US-08-444-818-176	Sequence 176, App
34	534	76.4	9379	3	US-09-388-874-1	Sequence 1, Appli
35	534	76.4	9379	4	US-09-916-359-1	Sequence 9, Appli
36	534	76.4	9401	1	US-07-910-760-9	Sequence 9, Appli
37	534	76.4	9401	1	US-08-440-519-9	Sequence 9, Appli
38	534	76.4	9401	2	US-08-432-693-1	Sequence 9, Appli
39	534	76.4	9401	4	US-08-444-818-9	Sequence 9, Appli
40	534	76.4	9401	4	US-08-823-895A-25	Sequence 25, Appl
41	534	76.4	9401	5	PCT-US91-02225-9	Sequence 9, Appli
42	534	76.4	9416	3	US-08-811-566-19	Sequence 19, Appl
43	534	76.4	9416	4	US-09-034-756-19	Sequence 19, Appl
44	534	76.4	9416	4	US-08-823-895A-26	Sequence 26, Appl
45	534	76.4	9416	4	US-10-104-966-13	Sequence 13, Appl

ALIGNMENTS

RESULT 1

US-08-244-116B-16
; Sequence 16, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 5763159th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014

```
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORGANISM: Hepatitis-C virus
US-08-244-116B-16

Alignment Scores:
Pred. No.: 331e-64 Length: 367
Score: 572.00 Matches: 111
Percent Similarity: 94.87% Conservative: 0
Best Local Similarity: 94.87% Mismatches: 6
Query Match: 81.83% Indels: 0
DB: 1 Gaps: 0

US-09-638-693-36 (1-133) x US-08-244-116B-16 (1-367)
QY 8 HisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSer 27
Db 5 CACCCYRUCRCRAAUACVCAUGGCAUGAUGCAGCUGAUCUGGAAGUACACCAGC 64
QY 28 ThrTrpValLeuLeuGlyGlyValLeuAlaAlaLeuAlaAlaTyrCysLeuSerValGly 47
Db 65 ACCUGGUGUGUCUUGGAGGUGUCUGCGKGCUCUAGCGGCUUACUGUCUGCUGCGC 124
QY 48 CysValValIleValGlyHisIleGluLeuGlyGlyLysProAlaIleValProAspLys 67
Db 125 UCGUGUGAUGUGGUGCAUUGAGCUGGUGGCGGACCCGCMUCUUGUCCAGACAR 184
QY 68 GluValLeuTyrGlnGlnTyrAspGluMetGluGluGAGAGGAGUGUCGCAAGCYGCCCAUAUC 244
Db 185 GARGUGUGUAUACAACAUACGAGAGAGAGAGGAGUGUCGCAAGCYGCCCAUAUC 244
QY 88 GluGlnAlaGlnValIleAlaHisGlnPheLysGlyValLeuLeuGlyLeuGlnArg 107
Db 245 GAACAAGCUCARGUAUAGCCACCAAGAGGAGAAAGUCUUGGUGUGCUGAGCGR 304
QY 108 AlaThrGlnGlnAlaValIleGluProIleValThrAsnTrpGln 124
Db 305 GCCACCCACACAGCUGUYAUUGAGCCMAUGAUGCUACCAUGGCA 355

RESULT 2
US-08-811-566-1
; Sequence 1, Application US/08811566
; Patent No. 6127116
; GENERAL INFORMATION:
; APPLICANT: Rice, Charles et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/811,566
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1113-1-006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9646 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-811-566-1

Alignment Scores:
Pred. No.: 4.97e-58 Length: 9646
Score: 539.00 Matches: 101
Percent Similarity: 83.46% Conservative: 10
Best Local Similarity: 75.94% Mismatches: 22
Query Match: 77.11% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-811-566-1 (1-9646)
QY 1 GlnAenGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 5235 CAGATGAAGTCACCTGACGCCCAATCACCATAATACATCATGACATGATGCGGCC 5294
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaAlaLeuAla 40
Db 5285 GACCTGGAGGTCGTACACGAGCACCTGGTGTGCTGCTGGCGGCTCTGCTGCTGCTG 5354
QY 41 AlaTyrCysLeuSerValGlyCysValIleValGlyHisIleGluLeuGlyGlyLys 60
Db 5355 GCGTATTCCTGTCACAGGCTGCTGTGTCTATAGTGGCAGAGTTGTTTGTCCGGGAG 5414
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80
Db 5415 CCGGCAATTATACCTGACAGGAGGTTCTCTACCAAGGAGTTCGATGAGATGCAAGAGTGC 5474
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 5475 TCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTTCAAGCAGAAG 5534
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 5535 GCCCTCGGCTCTCTGACAGCCGCTCCGCCAAGCAGAGGTTATCACCCCTGCTGCTCCAG 5594
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 5595 ACCAACTGCCAGAACTCGAGGTCTTCTGCGGCGAAGCAC 5633

RESULT 3
US-09-034-756-1
; Sequence 1, Application US/09034756
; Patent No. 6392028
; GENERAL INFORMATION:
; APPLICANT: RICE, CHARLES et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWELL & HAERKAMP, L.C.
; STREET: 7733 FORSYTH BLVD., SUITE 1400
; CITY: ST. LOUIS
; STATE: MO
; COUNTRY: USA
; ZIP: 63105
; COMPUTER READABLE FORM:
```

```

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/034,756
; FILING DATE: 04-May-1998
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: HOLLAND, DONALD R.
; REGISTRATION NUMBER: 35,197
; REFERENCE/DOCKET NUMBER: 6029-4831
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 314-727-5188
; TELEFAX: 314-727-6092
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9646 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-034-756-1

Alignment Scores:
Pred. No.: 4,976-58 Length: 9646
Score: 539.00 Matches: 101
Percent Similarity: 83.46% Conservative: 10
Best Local Similarity: 75.94% Mismatches: 22
Query Match: 77.11% Indels: 0
DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-034-756-1 (1-9646)
QY 1 GlnAenGluileCysLeuThrHisProileThrLysTyrIleMetAlaCysMetSerAla 20
Db 5235 CAGATGAAGTCACCTGAGCAGCCCAATACCAATATACATGATGATGCGGCC 5294
QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 5295 GACCTGGAGGTCGTACAGCAGCACCTGGTGTCTGTGGCGGCTCTGTGCTG 5354
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60
Db 5355 GCGTATTGCTGTCAACAGGTCGTGTGTATAGTGGGCGAGGATTGTCTGTG 5414
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluCys 80
Db 5415 CCGGCAATTATACCTGACAGGAGGTCGTGTGTGTGGCGGCTCTGTGCTG 5474
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 5475 TCTCAGCACTTACCGTACATCGAAGGATGATGCTCGTGCAGAGTTCAGCAG 5534
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 5535 GCCCTCGGCGCTCTGCAGACCGCGTCCCGCCAAAGCAGAGGTTATCACCCCTG 5594
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 5595 ACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCAC 5633

RESULT 4
US-08-811-566-5
; Sequence 5, Application US/08811566
; Patent No. 6127116
; GENERAL INFORMATION:
; APPLICANT: Rice, Charles et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
;
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; STREET: Floor
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/811,566
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1113-1-006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12980 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-811-566-5

Alignment Scores:
Pred. No.: 7,58-58 Length: 12980
Score: 539.00 Matches: 101
Percent Similarity: 83.46% Conservative: 10
Best Local Similarity: 75.94% Mismatches: 22
Query Match: 77.11% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-811-566-5 (1-12980)
QY 1 GlnAenGluileCysLeuThrHisProileThrLysTyrIleMetAlaCysMetSerAla 20
Db 5235 CAGATGAAGTCACCTGAGCAGCCCAATACCAATATACATGATGATGCGGCC 5294
QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 5295 GACCTGGAGGTCGTACAGCAGCACCTGGTGTCTGTGGCGGCTCTGTGCTG 5354
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60
Db 5355 GCGTATTGCTGTCAACAGGTCGTGTGTATAGTGGGCGAGGATTGTCTGTG 5414
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluCys 80
Db 5415 CCGGCAATTATACCTGACAGGAGGTCGTGTGTGTGGCGGCTCTGTGCTG 5474
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 5475 TCTCAGCACTTACCGTACATCGAAGGATGATGCTCGTGCAGAGTTCAGCAG 5534
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 5535 GCCCTCGGCGCTCTGCAGACCGCGTCCCGCCAAAGCAGAGGTTATCACCCCTG 5594
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 5595 ACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCAC 5633
```



```
Db 534 CAGATGAATCAACCCCTGACGACCCAGTCACCAATATACATCATGATCGGCC 593
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 594 GACCTGGAGTCTCAGACACCTGGTGTCTGTTGGCGGCTCTGCTGCTTTGGCC 653
QY 41 AlaTyrCysLeuSerValGlyCysValValLeuValGlyHisLeuGluGlyGlyLys 60
Db 654 GCGTATTGCTGTCAACAGGCTCGTGTCTATAGTGGCAGGCTGCTGTCTCGGGAAG 713
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80
Db 714 CCGGCAATCATCTCAGACGGAAGTCTTACCGAGAGTTCATGAGATGGAAGAGTGC 773
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGlyLys 100
Db 774 TCTCAGACTTACCGTACATCGAGCAGGATGATGCTCGCCGAGGTTTCAAGCAGAAG 833
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 834 GCGCTGGGCTCTCGCAGACCGGCTCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAG 893
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 894 ACCAACTGGCAAACTCGAGACCTTCTCGGCGAAGCAT 932
RESULT 7
US-07-965-285-43
; Sequence 43, Application US/07965285
; Patent No. 5879904
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kremendorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE: 18-MAR-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 91 06 882
; FILING DATE: 06-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05286-0001-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 943 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other
; DESCRIPTION: cDNA to genomic RNA
```

US-07-965-285-43

Alignment Scores:

```
Pred. No.: 8,56e-59 Length: 943
Score: 534.00 Matches: 99
Percent Similarity: 83.46% Conservative: 12
Best Local Similarity: 74.44% Mismatches: 22
Query Match: 76.39% Indels: 0
DB: 2 Gaps: 0
```

US-09-638-693-36 (1-133) x US-07-965-285-43 (1-943)

```
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 534 CAGATGAATCAACCCCTGACGACCCAGTCACCAATATACATCATGATCGGCC 593
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 594 GACCTGGAGTCTCAGACACCTGGTGTCTGTTGGCGGCTCTGCTGCTTTGGCC 653
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGlyLys 60
Db 654 GCGTATTGCTGTCAACAGGCTCGTGTCTATAGTGGCAGGCTGCTGTCTCGGGAAG 713
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80
Db 714 CCGGCAATCATCTCAGACGGAAGTCTTACCGAGAGTTCATGAGATGGAAGAGTGC 773
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGlyLys 100
Db 774 TCTCAGACTTACCGTACATCGAGCAGGATGATGCTCGCCGAGGTTTCAAGCAGAAG 833
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 834 GCGCTGGGCTCTCGCAGACCGGCTCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAG 893
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 894 ACCAACTGGCAAACTCGAGACCTTCTCGGCGAAGCAT 932
```

RESULT 8

US-08-487-231-43

; Sequence 43, Application US/08487231

; Patent No. 5919454

; GENERAL INFORMATION:

; APPLICANT: Brechot, Christian

; APPLICANT: Kremendorf, Dina

; APPLICANT: Porchon, Colette

; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a

; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

; NUMBER OF SEQUENCES: 46

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &

; ADDRESSEE: Dunner

; STREET: 1300 I Street, N.W.

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20005-3315

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/487,231

; FILING DATE: 07-JUNE-1995

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/965,285

; FILING DATE: 18-MAR-1993

; CLASSIFICATION: 435


```
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: FR 91 06 882
/ FILING DATE: 06-JUN-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Meyers, Kenneth J.
/ REGISTRATION NUMBER: 25,146
/ REFERENCE/DOCKET NUMBER: 05286-0001-02000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-408-4000
/ TELEFAX: 202-408-4400
/ INFORMATION FOR SEQ ID NO: 43:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 943 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: Other
/ DESCRIPTION: cDNA to genomic RNA
US-08-487-231-43

Alignment Scores:
Pred. No.:      8,566-59      Length:      943
Score:          534.00      Matches:      99
Percent Similarity: 83.46%      Conservative: 12
Best Local Similarity: 74.44%      Mismatches:  22
Query Match:      76.39%      Indels:      0
DB:              2          Gaps:      0

US-09-638-693-36 (1-133) x US-08-487-231-43 (1-943)
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 534 CAGAATGAATCACCCTGACGACCCAGTCCACCAATACATCATGATGATGCGGCC 593
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyValLeuAlaLeuAla 40
Db 594 GACCTGGAGTGTCTACAGACACCTGGGTGCTGTGGCGGCTCTGCTGCTTGGCC 653
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGlyLys 60
Db 654 GCGTATTGCTGTCAACAGGCTGCTGATGAGTGGGAGGTCGTCTTGTCCGGAG 713
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80
Db 714 CCGGCAATCATACCTGACAGGAAGTCTCTACCGAGATTCGATGAGATGGAAGATGC 773
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 774 TCTCAGCACTTACCGTACATCGAGCAGGATGATGCTCGCGGAGCAGTTCAGCAGAAG 833
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 834 GCGCTCGGCTCTGTCAGACCGCGTCCGTCAGGAGGTTATCGCCCTGCTGCTCCAG 893
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 894 ACCAACTGGCAAAACTCGAGACCTTCTGGCGGAAGCAT 932

RESULT 9
US-09-201-912-43
/ Sequence 43, Application US/09201912
/ Patent No. 6210962
/ GENERAL INFORMATION:
/ APPLICANT: Brechot, Christian
/ APPLICANT: Krensdorf, Dina
/ APPLICANT: Porchon, Colette
/ TITLE OF INVENTION: Nucleoside and Peptide Sequences of a
/ TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
/ NUMBER OF INVENTIONS: 46
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
/ ADDRESSEE: Dunner
```

```
/ STREET: 1300 I Street, N.W.
/ CITY: Washington
/ STATE: DC
/ COUNTRY: USA
/ ZIP: 20005-3315
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/201,912
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/965,285
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Meyers, Kenneth J.
/ REGISTRATION NUMBER: 25,146
/ REFERENCE/DOCKET NUMBER: 05286-0001-00000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-408-4000
/ TELEFAX: 202-408-4400
/ INFORMATION FOR SEQ ID NO: 43:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 943 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: Other
/ DESCRIPTION: cDNA to genomic RNA
US-09-201-912-43

Alignment Scores:
Pred. No.:      8,566-59      Length:      943
Score:          534.00      Matches:      99
Percent Similarity: 83.46%      Conservative: 12
Best Local Similarity: 74.44%      Mismatches:  22
Query Match:      76.39%      Indels:      0
DB:              3          Gaps:      0

US-09-638-693-36 (1-133) x US-09-201-912-43 (1-943)
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 534 CAGAATGAATCACCCTGACGACCCAGTCCACCAATACATCATGATGATGCGGCC 593
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyValLeuAlaLeuAla 40
Db 594 GACCTGGAGTGTCTACAGACACCTGGGTGCTGTGGCGGCTCTGCTGCTTGGCC 653
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGlyLys 60
Db 654 GCGTATTGCTGTCAACAGGCTGCTGATGAGTGGGAGGTCGTCTTGTCCGGAG 713
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80
Db 714 CCGGCAATCATACCTGACAGGAAGTCTCTACCGAGATTCGATGAGATGGAAGATGC 773
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 774 TCTCAGCACTTACCGTACATCGAGCAGGATGATGCTCGCGGAGCAGTTCAGCAGAAG 833
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 834 GCGCTCGGCTCTGTCAGACCGCGTCCGTCAGGAGGTTATCGCCCTGCTGCTCCAG 893
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 894 ACCAACTGGCAAAACTCGAGACCTTCTGGCGGAAGCAT 932

RESULT 10
```

US-08-444-818-67
; Sequence 67, Application US/08444818
; Patent No. 6150087
; GENERAL INFORMATION:
; APPLICANT: Chien, David Y.
; APPLICANT: Rutter, William J.
; TITLE OF INVENTION: NANBV Diagnostics and Vaccines
; NUMBER OF SEQUENCES: 777
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: CA
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,818
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,590
; FILING DATE: 14-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Harbin, Alisa A.
; REGISTRATION NUMBER: 33,895
; REFERENCE/DOCKET NUMBER: 0110.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)359-3876
; TELEFAX: (508)359-3885
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1310 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; CLONE: composite of clones 36, 81, and 32
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1146
US-08-444-818-67

Alignment Scores:
Pred. No.: 1.35e-58 Length: 1310
Score: 534.00 Matches: 99
Percent Similarity: 83.46% Conservative: 12
Best Local Similarity: 74.44% Mismatches: 22
Query Match: 76.39% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-444-818-67 (1-1310)

QY 1 GlnAsnGluLeuCysLeuThrHisProIleThrIleMetAlaCysMetSerAla 20
DB 232 CAGATGAATCACCCTGACGACCCAGCCAGCAATACATCATGATGTCGGCC 291
QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyValLeuAlaLeuAla 40
DB 292 GACCTGGAGGTCGTACAGACACCTGGTGTCTGCTGGGGCTCTGCTGGCTTGGCC 351
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGly 60
DB 352 GCGTATTGCTGTCAACAGGCTGCTGTATGTCGAGGCTGTCTGTCTGTCGGGAAG 411
QY 61 ProAlaIleValProAspGluValLeuTyrGlnGlnTyrAspGluMetGluCys 80
DB 412 CCGGCAATCATACCTGACAGGAGTCTCTACCGAGAGTTCGATGAGATGGAAGTGC 471

QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheIysGlyLys 100
DB 472 TCTCAGCACTTACCGTACATGAGCAAGGATGATGCTCGCGCAGCAGTTCAGGAGAAG 531
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
DB 532 GCCCTCGCCCTCTCGACACCGCTCCGTCAGGAGAGGTATCGCCCTCTGCTCTCCAG 591
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
DB 592 ACCAACTGGCAAAACTCGAGACCTCTCTGGCGGAAGCAT 630

RESULT 11
US-08-444-818-19
; Sequence 19, Application US/08444818
; Patent No. 6150087
; GENERAL INFORMATION:
; APPLICANT: Chien, David Y.
; APPLICANT: Rutter, William J.
; TITLE OF INVENTION: NANBV Diagnostics and Vaccines
; NUMBER OF SEQUENCES: 777
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: CA
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,818
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,590
; FILING DATE: 14-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Harbin, Alisa A.
; REGISTRATION NUMBER: 33,895
; REFERENCE/DOCKET NUMBER: 0110.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)359-3876
; TELEFAX: (508)359-3885
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1382 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1380
US-08-444-818-19

Alignment Scores:
Pred. No.: 1.46e-58 Length: 1382
Score: 534.00 Matches: 99
Percent Similarity: 83.46% Conservative: 12
Best Local Similarity: 74.44% Mismatches: 22
Query Match: 76.39% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-444-818-19 (1-1382)

QY 1 GlnAsnGluLeuCysLeuThrHisProIleThrIleMetAlaCysMetSerAla 20
DB 484 CAGATGAATCACCCTGACGACCCAGCCAGCAATACATCATGATGTCGGCC 543

Db	733	TCTCAGCACCTGCGTACATCGAACAGGGTATGATGCTGCTGAACAGTTCAACACAGAAA	792
QY	101	ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr	120
Db	793	GCTCTGGGTCTGCTGCAGACCGCTTCTCTCAGGCTGAAGTTATCGTCCGGGTGTTTCAG	852
QY	121	ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis	133
Db	853	ACCACTGGCAGAACTCGAGACCTTCTGGGCTAAACAC	891

Search completed: February 27, 2004, 21:51:48
Job time : 74 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: February 27, 2004, 21:49:23 ; Search time 254 Seconds

(without alignments)
1888.949 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEICLTHPIKYMCMISA.....VIEPIVITNQKLEAFWHKH 133

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2333733 seqs, 1803733377 residues

Total number of hits satisfying chosen parameters: 4707466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+_p2n.model -DEV=xlh

-O=/cgn2_1/USPTO_spool/US09638693/runat_24022004_135621_6525/app_query.fasta_1.327

-DB=Published Applications NA -QFMT=fastap -SUFFIX=rnpb -MINMATCH=0.1

-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62

-TRANS=human40.cdi -LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100

-MAXLEN=2000000000 -USER=US09638693_@CNG_1_164 @runat_24022004_135621_6525

-NCPU=6 -ICPU=3 -NO_MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100

-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5

-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications NA.*

1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*

2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*

3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*

4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*

5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*

6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*

7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*

8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*

9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq.*

10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq.*

11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq.*

12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*

13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq.*

14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq.*

15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq.*

16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*

17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match	Length	ID	Description
---------------	----------------	-------	--------	----	-------------

1	599	100.0	401	10	US-09-899-046-35	Sequence 35, Appl
2	599	100.0	401	10	US-09-878-281-35	Sequence 35, Appl
3	691	98.9	401	10	US-09-899-046-37	Sequence 37, Appl
4	691	98.9	401	10	US-09-899-046-39	Sequence 39, Appl
5	691	98.9	401	10	US-09-878-281-37	Sequence 37, Appl
6	691	98.9	401	10	US-09-878-281-39	Sequence 39, Appl
7	691	98.9	629	10	US-09-899-046-222	Sequence 22, App
8	691	98.9	629	10	US-09-878-281-222	Sequence 22, App
9	672	96.1	401	10	US-09-899-046-31	Sequence 31, Appl
10	672	96.1	401	10	US-09-899-046-33	Sequence 33, Appl
11	672	96.1	401	10	US-09-878-281-31	Sequence 31, Appl
12	672	96.1	401	10	US-09-878-281-33	Sequence 33, Appl
13	572	81.8	367	14	US-10-386-864-16	Sequence 16, Appl
14	539	77.1	9646	9	US-09-742-659-3	Sequence 3, Appl
15	539	77.1	9646	9	US-09-238-076-1	Sequence 1, Appl
16	539	77.1	9646	10	US-09-995-937-1	Sequence 1, Appl
17	539	77.1	9646	10	US-09-917-563-1	Sequence 5, Appl
18	539	77.1	12980	9	US-09-238-076-5	Sequence 5, Appl
19	539	77.1	12980	10	US-09-995-937-5	Sequence 5, Appl
20	539	77.1	12980	10	US-09-917-563-5	Sequence 5, Appl
21	534	76.4	9379	9	US-09-916-359-1	Sequence 1, Appl
22	534	76.4	9416	9	US-09-238-076-19	Sequence 19, Appl
23	534	76.4	9416	9	US-09-929-955-13	Sequence 13, Appl
24	534	76.4	9416	10	US-09-995-937-19	Sequence 19, Appl
25	534	76.4	9416	10	US-09-917-563-19	Sequence 19, Appl
26	534	76.4	9416	13	US-10-104-566-13	Sequence 13, Appl
27	534	76.4	10803	14	US-09-747-419-17	Sequence 17, Appl
28	534	76.4	10803	14	US-10-259-275-17	Sequence 17, Appl
29	527	75.4	9365	10	US-09-827-688-7	Sequence 7, Appl
30	493	70.5	9413	10	US-09-827-688-6	Sequence 6, Appl
31	492	70.4	13910	10	US-09-919-901-1	Sequence 1, Appl
32	492	70.4	13910	10	US-09-919-901-8	Sequence 8, Appl
33	492	70.4	13910	10	US-09-919-901-15	Sequence 15, Appl
34	492	70.4	13910	14	US-10-191-966-1	Sequence 1, Appl
35	492	70.4	13910	14	US-10-191-966-8	Sequence 8, Appl
36	492	70.4	13910	14	US-10-191-966-15	Sequence 15, Appl
37	490	70.1	5189	14	US-10-259-275-41	Sequence 41, Appl
38	490	70.1	7989	15	US-10-434-842-16	Sequence 16, Appl
39	490	70.1	7992	13	US-10-005-469-1	Sequence 1, Appl
40	490	70.1	7992	13	US-10-005-469-2	Sequence 2, Appl
41	490	70.1	7992	13	US-10-005-469-6	Sequence 6, Appl
42	490	70.1	7992	15	US-10-434-842-1	Sequence 1, Appl
43	490	70.1	7992	15	US-10-434-842-2	Sequence 2, Appl
44	490	70.1	7992	15	US-10-434-842-6	Sequence 6, Appl
45	490	70.1	7992	15	US-10-434-842-15	Sequence 15, Appl

ALIGNMENTS

RESULT 1

US-09-899-046-35
; Sequence 35, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:

; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 401 base pairs
; TYPE: nucleic acid

```

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE:
; CLONE: BR36-20-164
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..401
US-09-899-046-35

```

```

Alignment Scores:
Pred. No.: 7.04e-93
Score: 699.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
DB: 10
Gaps: 0

```

US-09-638-693-36 (1-133) x US-09-899-046-35 (1-401)

```

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 3 CAAATGAAATCTGCTTGACACACCCCATCACAAATATACATCATGCGATGTCAGCT 62
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 63 GATCTGGAAGTAACACACAGCACCTGGGTTTCTTGAGGGGTCTTCGCGGCCCTAGCG 122
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGly 60
Db 123 GCTACTGTTGTGCACTCGGTTGTGTGATGTGGGTATCATATCGAGCTGGGGGCAAG 182
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys 80
Db 183 CCGGCATCTGTTCCAGACAAAGAGGTGTGTATCAACAATACATGAGATGGAAGAGTGC 242
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 243 TCACAAGCTGCCCATATATATCGAACAGCTCAGGTAAATAGCTCACCAGTTCAAGGGAAAA 302
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 303 GTCTTGGATTGCTGAGCGAGCCACCCAAACAAGCTGTCTATTGAGCCCATAGTAAC 362
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 363 ACCAACTGGCAAAAGCTTGAGGCCCTTTTGGCACAGCAT 401

```

RESULT 2

```

US-09-878-281-35
; Sequence 35, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 401 base pairs

```

```

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE:
; CLONE: BR36-20-164
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..401
US-09-878-281-35

```

```

Alignment Scores:
Pred. No.: 7.04e-93
Score: 699.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
DB: 10
Gaps: 0

```

US-09-638-693-36 (1-133) x US-09-878-281-35 (1-401)

```

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 3 CAAATGAAATCTGCTTGACACACCCCATCACAAATATACATCATGCGATGTCAGCT 62
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 63 GATCTGGAAGTAACACACAGCACCTGGGTTTCTTGAGGGGTCTTCGCGGCCCTAGCG 122
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGly 60
Db 123 GCTACTGTTGTGCACTCGGTTGTGTGATGTGGGTATCATATCGAGCTGGGGGCAAG 182
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys 80
Db 183 CCGGCATCTGTTCCAGACAAAGAGGTGTGTATCAACAATACATGAGATGGAAGAGTGC 242
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 243 TCACAAGCTGCCCATATATATCGAACAGCTCAGGTAAATAGCTCACCAGTTCAAGGGAAAA 302
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 303 GTCTTGGATTGCTGAGCGAGCCACCCAAACAAGCTGTCTATTGAGCCCATAGTAAC 362
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 363 ACCAACTGGCAAAAGCTTGAGGCCCTTTTGGCACAGCAT 401

```

RESULT 3

```

US-09-899-046-37
; Sequence 37, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:

```



```

; ; LENGTH: 401 base pairs
; ; TYPE: nucleic acid
; ; STRANDEDNESS: single
; ; TOPOLOGY: linear
; ; MOLECULE TYPE: cDNA
; ; HYPOTHETICAL: NO
; ; ANTI-SENSE: NO
; ; IMMEDIATE SOURCE:
; ; CLONE: BR36-20-166
; ; FEATURE:
; ; NAME/KEY: CDS
; ; LOCATION: 3..401
; ; US-09-899-046-37

```

Alignment Scores:	
Pred. No.:	1,058-91
Score:	691.00
Percent Similarity:	95.2%
Best Local Similarity:	95.2%
Query Match:	98.86%
DB:	10
Length:	401
Matches:	132
Conservative:	401
Mismatches:	1
Indels:	0
Gaps:	0

US-09-638-693-36 (1-133) x US-09-899-046-37 (1-401)

1	GlnAsnGluIleCysLeuThrHisProIleThrIysTyrIleMetalAcysMetSerAla	20
3	CAAAATGAAATCTGCTTGACACACCCCATCACAAATACATCATGCATGTCAGT	62
21	AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla	40
63	GATCTGGNAGTAAACACAGACACCTGGGTTTGTCTGGAGGGGTCTCTCGCGCCCTAGGC	122
41	AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGlyIys	60
123	GCCTACTGCTGTGTCAGTCGGTGTGTGTGATGTGGGTCTATATCAGAGTGGGGGGCAAG	182
61	ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys	80
183	CCGGCAATCGTTCAGACAAAGAGGTGTTGATCAACAATACAGATCGAGNGTGC	242
81	SerGlnAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyIys	100
243	TCACAAGCTGCCCATATATCGAACAAAGCTCAGGTGATAGCTCACCAGTTCAGGAAAAA	302
101	ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr	120
303	GTCTCTTGATTTGTCAGCGAGGCCACCAACAACAAGCTGTGATGAGCCCATGTAAC	362
121	ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis	133
363	ACCAACTGGCAAAAGCTTGAGGCGCTTTTGCACAAGCAT	401

RESULT 4

US-09-899-046-39
Sequence 39, Application US/09899046
Publication No. US20030008274A1
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICANT APPLICATION NUMBER: US/09/899,046
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:
INFORMATION FOR SEQ ID NO: 39:

APPLICANT: RICE, CHARLES et al.
TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: HOWELL & HAFERKAMP, L.C.
STREET: 7733 FORSYTH BLVD., SUITE 1400
CITY: ST. LOUIS
STATE: MO
COUNTRY: USA
ZIP: 63105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/238,076
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA: US 09/034,756
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: HOLLAND, DONALD R.
REGISTRATION NUMBER: 35,197
REFERENCE/DOCKET NUMBER: 6029-4831
TELECOMMUNICATION INFORMATION:
TELEPHONE: 314-727-5188
TELEFAX: 314-727-6092
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9646 base pairs
TYPE: nucleic acid
STRAINEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-09-238-076-1

Alignment Scores:	
Pred. No.:	2.26e-67
Score:	539.00
Percent Similarity:	83.46%
Best Local Similarity:	75.94%
Query Match:	77.11%
DB:	9
Length:	9646
Matches:	101
Conservative:	10
Mismatches:	22
Indels:	0
Gaps:	0

US-09-638-693-36 (1-133) x US-09-238-076-1 (1-9646)

QY		1	GlnAsnGluIleCysLeuThrHisProIleThrllysTyrileMetalAlaCysMetSerAla	20
			:::	
Db		5235	CAGAATCAAGTCACCTCGACGCCAACCCAAATCACCAAATATCATCATGACATGCATGTGGCC	5294
QY		21	AspLeuGluValThrThrSerThrTrpValleuLeuClyGlyValleuAlaLeuAla	40
			:::	
Db		5295	GACCTGGAGGTGCTCAGGACACTGGTGCTCGTTGGCGCGCTCTGGTGTCTGTGGCC	5354
QY		41	AlaTyrCysLeuSerValGlyCysValValleValdGlyHisIleGluLeuGlyGlyLys	60
			:::	
Db		5355	GCGTATTGCTGTC AACAGSGCTCGGTGTCATAGTGGCAGGATGTCTGTCTCGGGAG	5414
QY		61	ProAlalleValProAspLysGluValLeuTyTyrGlnGlnTyrAspGluMetGluGluCys	80
			:::	
Db		5415	COGGCAATTATACCTCAGCAGSAGGTTCCTAC CAGGAGTTCGATGAGATGGAGAGTGC	5474
QY		81	SerGlnAlaAlaProTyrIleGluGlnAlaGlnValilleAhiGlnPheLysGlyLys	100
			:::	
Db		5475	TCTCAGCACTTACCGTACATCGAGCAGGAGATGATGCTCGCTGAGCAGGTTC AAGCAGAAG	5534
QY		101	ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValilleGluProIleValThr	120
			:::	